

CONCEPTUAL PARKING LAYOUTS

VILLAGE OF BISCAYNE PARK

Park Parking Master Plan

Calvin, Giordano & Associates, Inc.



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01

Introduction & Project Status

02

Conceptual Parking Layouts

03

Sustainable Design Vignettes



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Introduction & Project Status

01

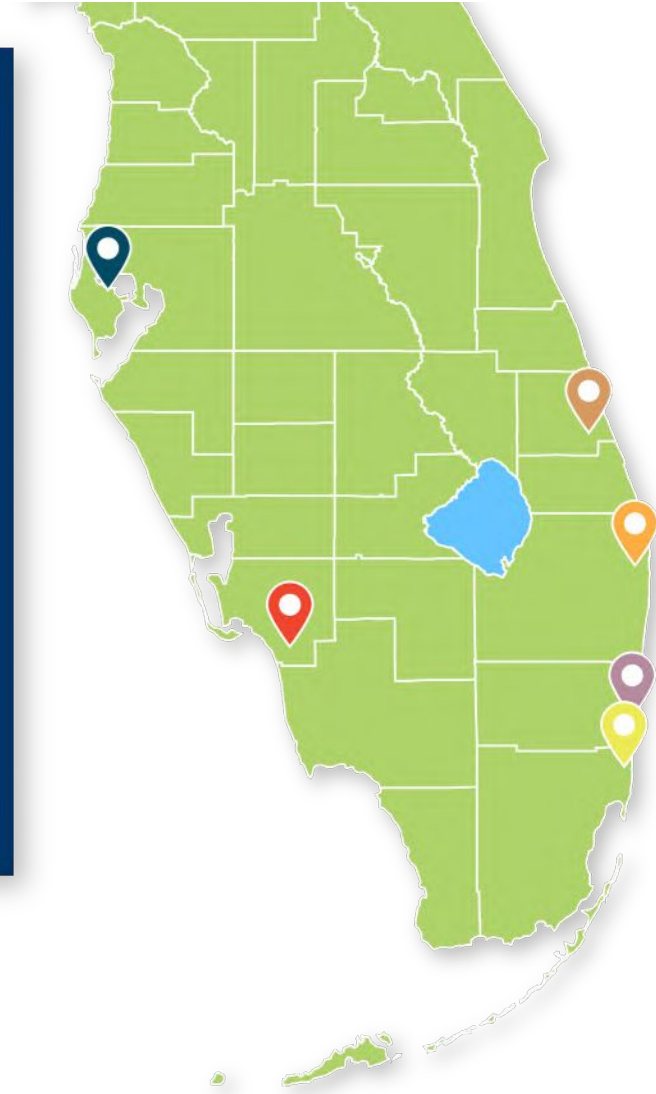


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CALVIN, GIORDANO & ASSOCIATES, INC.

- [+] Multi-disciplinary firm
- [+] Award winning design team
- [+] Since 1937 - over 80+ years
- [+] 370+ employees

- Calvin, Giordano & Associates, Inc.
1800 Eller Drive, Suite 600
Fort Lauderdale, FL 33316
- Calvin, Giordano & Associates, Inc.
10800 Biscayne Boulevard, Suite 950
Miami, FL 33161
- Calvin, Giordano & Associates, Inc.
580 Village Blvd. Suite 325
West Palm Beach, FL 33409
- Calvin, Giordano & Associates, Inc.
2400 SE Veterans Memorial Parkway,
Suite 207
Port St. Lucie, FL 34952
- Calvin, Giordano & Associates, Inc.
9990 Coconut Road, Suite 340
Estero, Florida 34135
- Calvin, Giordano & Associates, Inc.
13535 Feather Sound Dr #135
Clearwater, FL 33762



Location and Background



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PROJECT STATUS

- Survey
 - Completed by Sub-consultant
- Tree Root Protection Strategies Research
 - Complete
- Site Analysis
 - Complete
- Conceptual Plan Development
 - 100% Complete
- Community Workshop
 - To be coordinated for within the next two weeks
- Schematic Plan Preparation
 - 0% Complete, pending community workshop results and completion of conceptual plan development and approval

Project Status | Update



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PRIORITY CONSIDERATIONS

1. Existing parking stalls (including all ADA parking) on the north half of NE 9th Court, fronting the front façade of the Recreation Center, to remain in order to not impact the existing code required ADA parking and the existing children's playground.
2. Minimize impacts to existing tree protection zones (defined as a 20-foot diameter around tree trunks shown in orange circles)
3. When necessary to impact tree protection zones, remain free and clear of trees critical root zones (defined as a 15-foot diameter around tree trunks shown in red circles)
4. Given the above limitations, analyzed the efficiencies of providing marked parking spaces consistent with the minimum dimensions regulated by the Miami-Dade County Zoning Code, Section 33122
5. Explored how to maximize parking either by:
 - a) Parking Concept 01: 45-degree forward angled parking combined with 90-degree parking (53 total additional maximum spaces achievable)
 - b) Parking Concept 02: 45-degree back-in angled parking combined with 90-degree parking (52 total additional maximum spaces achievable)
 - c) Parking Concept 03: 90-degree parking combined with parallel parking (51 total additional maximum spaces achievable)
 - d) Parking concept 04: Combination strategy using various parking options (64 total additional maximum spaces achievable)

Project Status | Analysis Findings



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PRIORITY CONSIDERATIONS (cont.)

1. Existing Perimeter Concrete Walkway - Based on the requirements of the code and the required minimum 'aisle' widths needed to allow for cars to back-out of a parking stall coupled with the need to protect the trees from construction and excavation impact, the positioning of several of the parking stalls may require the **relocation and redesign of the existing perimeter concrete walkway**; this can result in an **opportunity to add programming and amenities to the park**

2. Upcoming Community Workshop to focus on:

- a) Discussion on the importance of tree protection and measures to do so
- b) Discussion on the implications of the Miami-Dade Code and the impact that has on parking configuration, given the existing conditions and depths of the swales and the abutting roadways
- c) Discussion on the various parking strategies
- d) Discussion on the options for construction and the impact on existing drainage, including the incorporation of green infrastructure solutions
- e) Discussion on material finishes for the parking
- f) Discussion on the relocated concrete sidewalk and the opportunities that can be incorporated to add programming and passive uses to the park.

Project Status | Analysis Findings



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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

PARK PARKING MASTER PLAN

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Conceptual Parking Layouts

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Existing Aerial | Burke Recreation Center



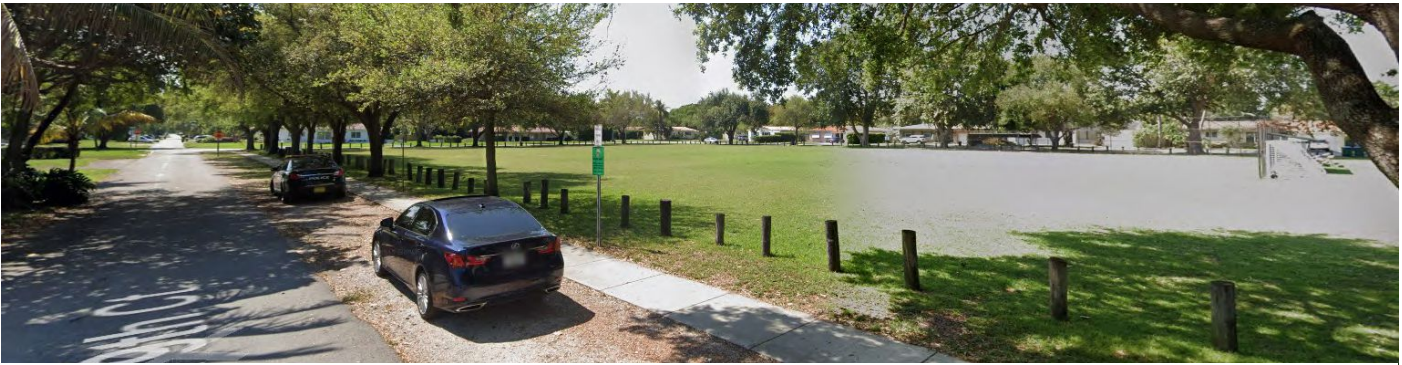
NE 9TH AVE



NE 9TH AVE



NE 9TH CT - EXISTING ADA PARKING



NE 9TH CT



NE 113TH ST



NE 115TH ST

Existing Conditions | Park Perimeter



NE 9TH AVE



NE 9TH AVE



NE 9TH CT - EXISTING ADA PARKING



NE 9TH CT

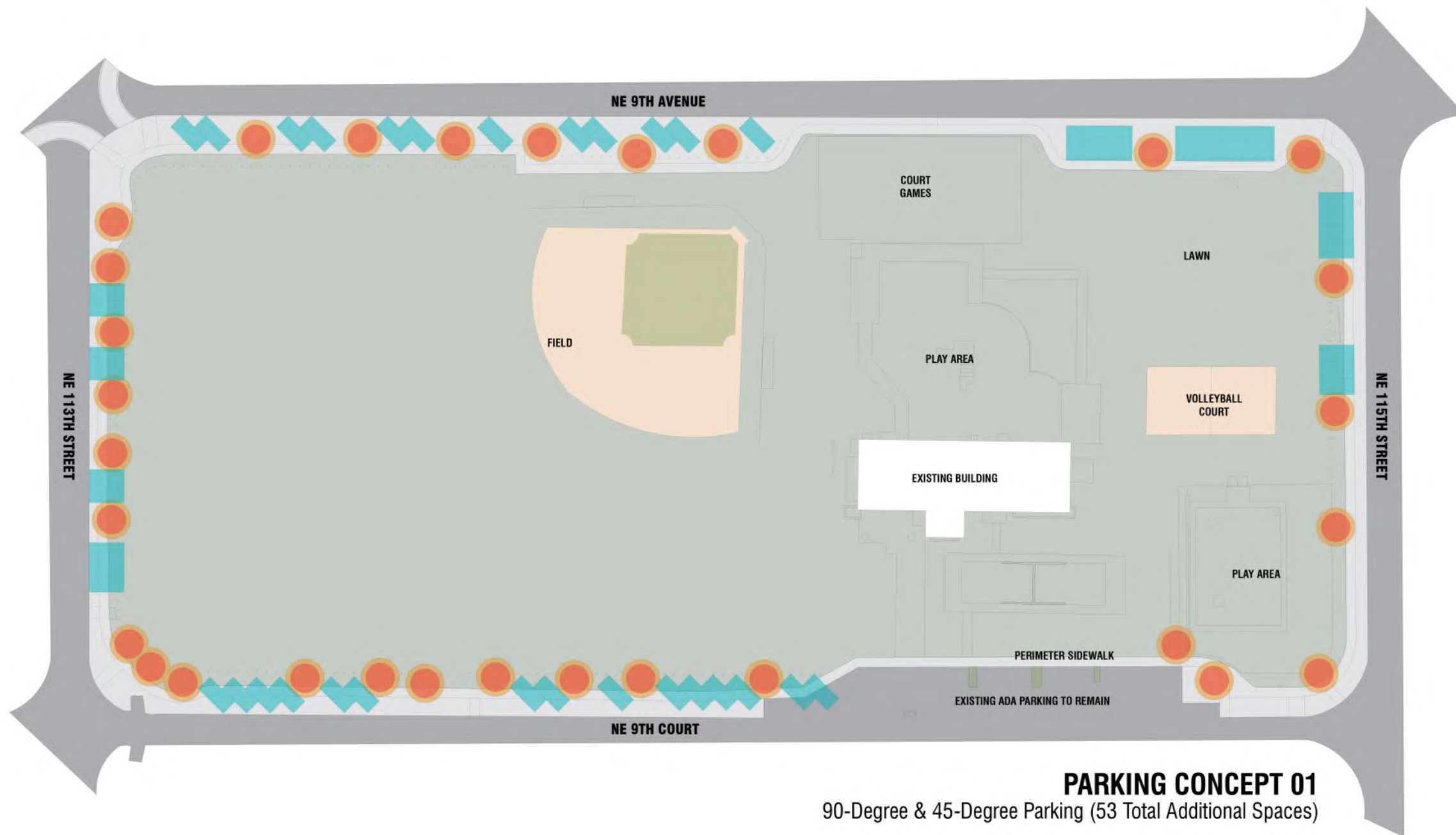


NE 113TH ST



NE 115TH ST

Existing Conditions | Park Perimeter

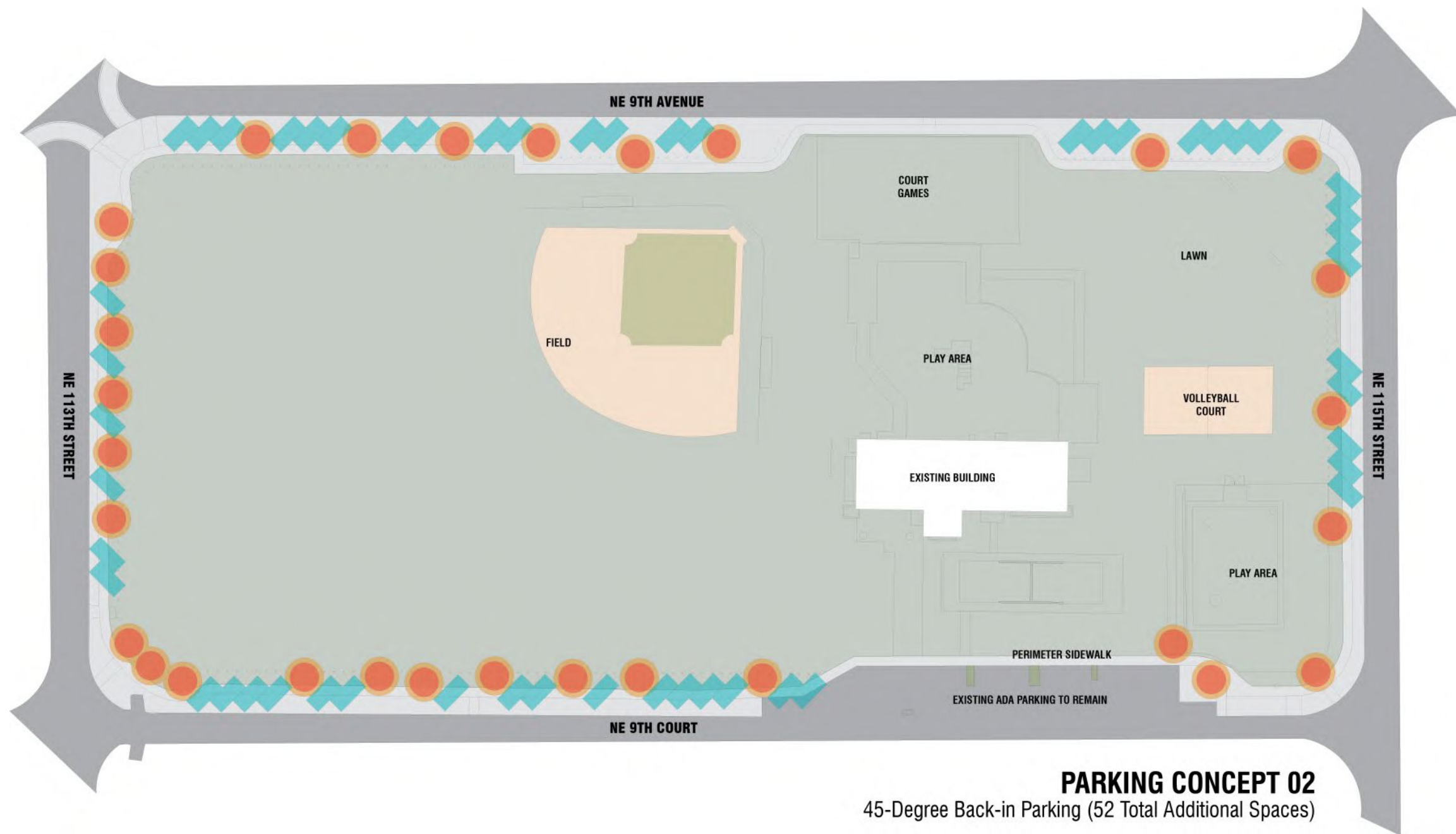


PARKING CONCEPT 01
90-Degree & 45-Degree Parking (53 Total Additional Spaces)

Parking Concept 01 | 53 Parking Spaces



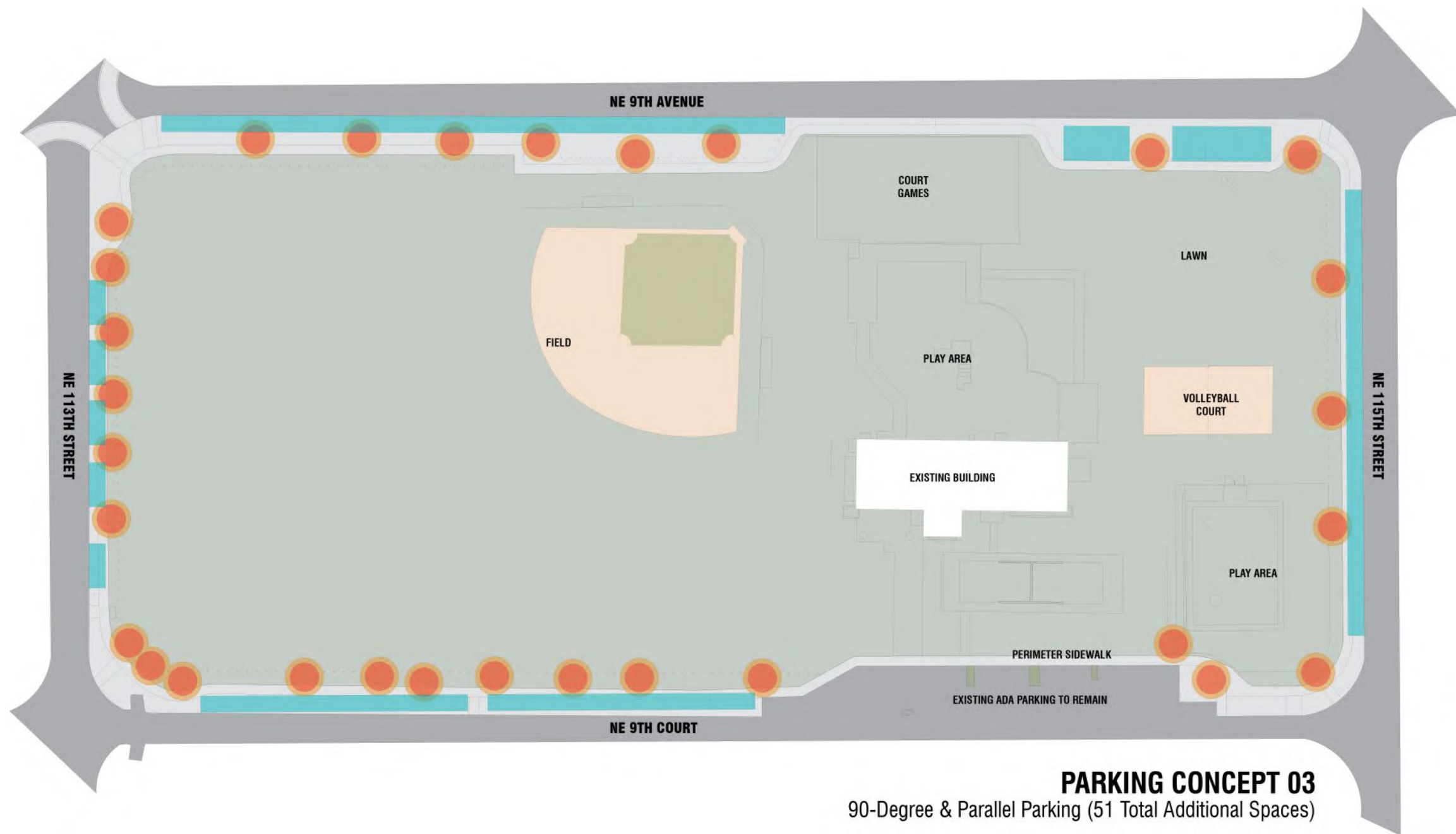
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Parking Concept 02 | 52 Parking Spaces



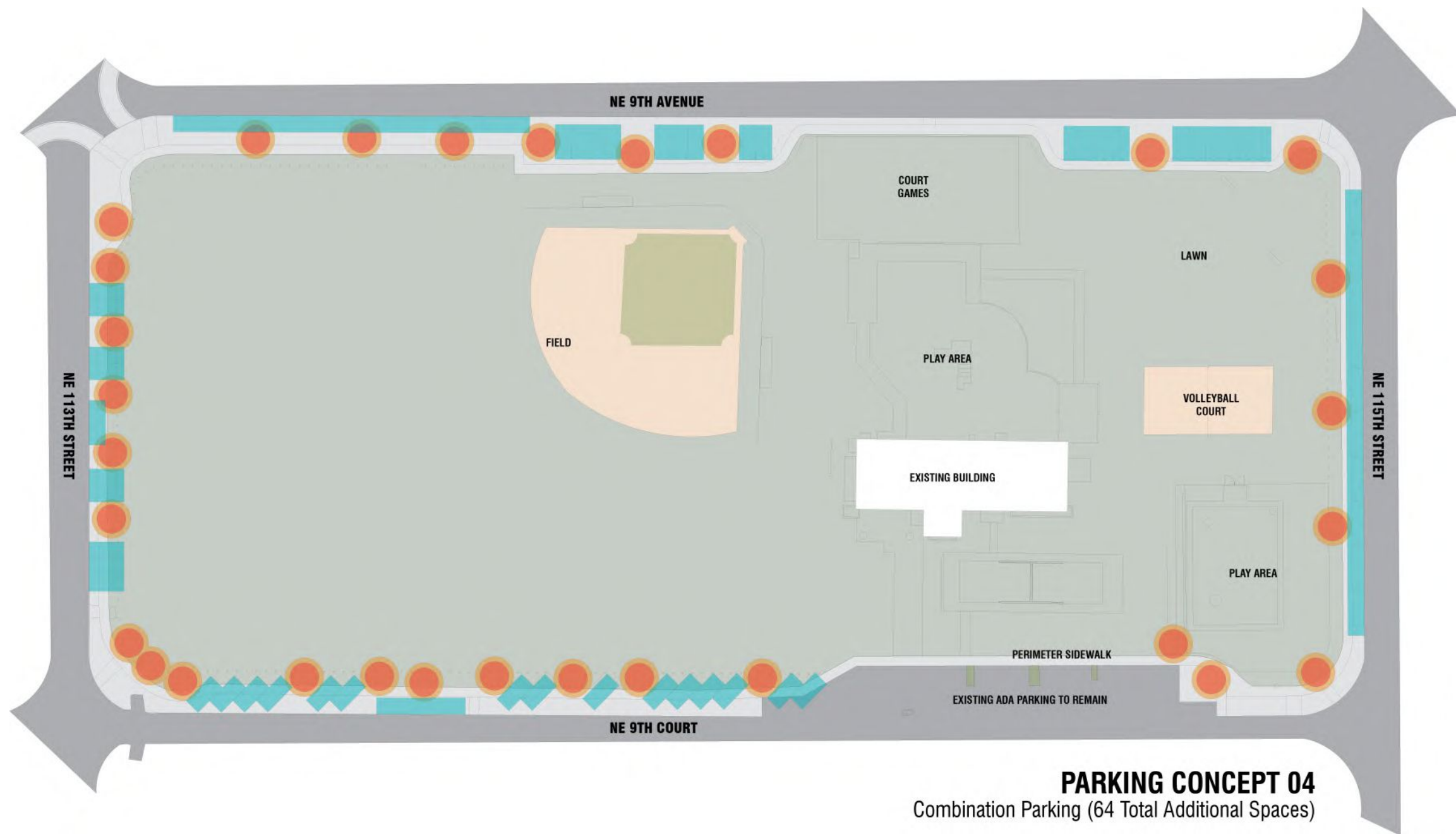
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Parking Concept 03 | 51 Parking Spaces



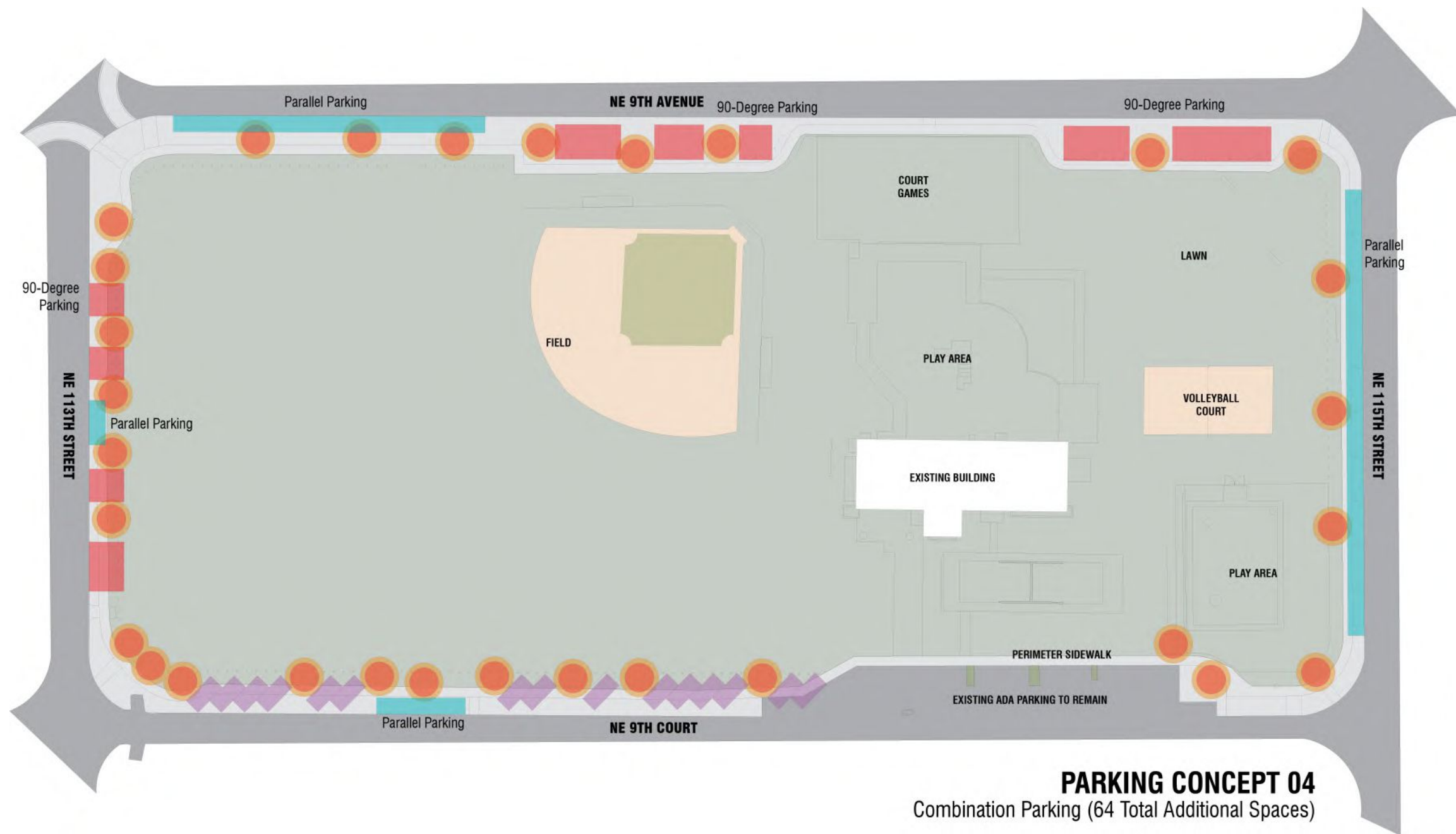
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Parking Concept 04a | 64 Parking Spaces



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Parking Concept 04b | 64 Parking Spaces



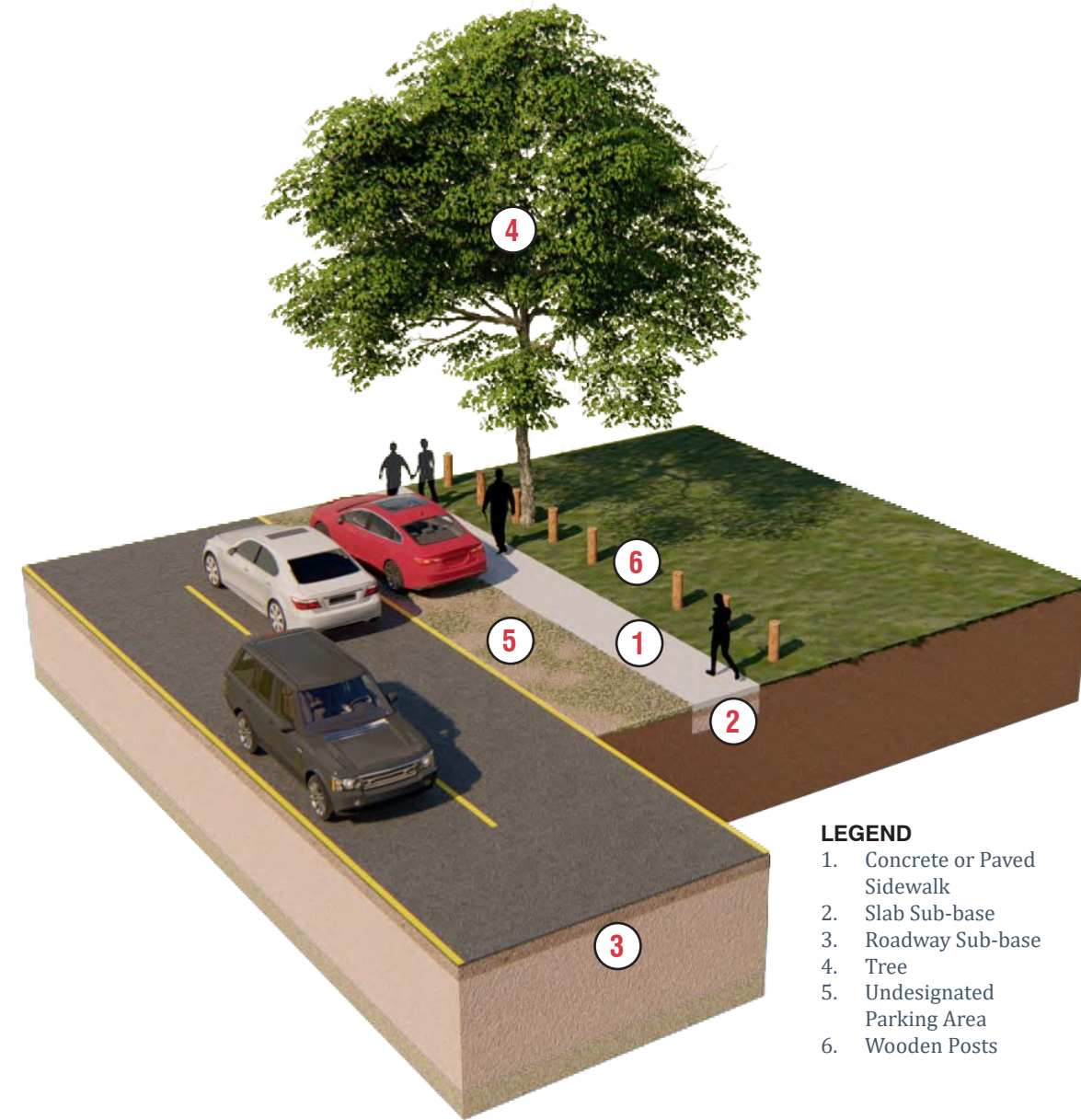
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Sustainable Design Vignettes

03



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- LEGEND**
- 1. Concrete or Paved Sidewalk
 - 2. Slab Sub-base
 - 3. Roadway Sub-base
 - 4. Tree
 - 5. Undesignated Parking Area
 - 6. Wooden Posts

90-Degree Parking - 01 | Existing Conditions



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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

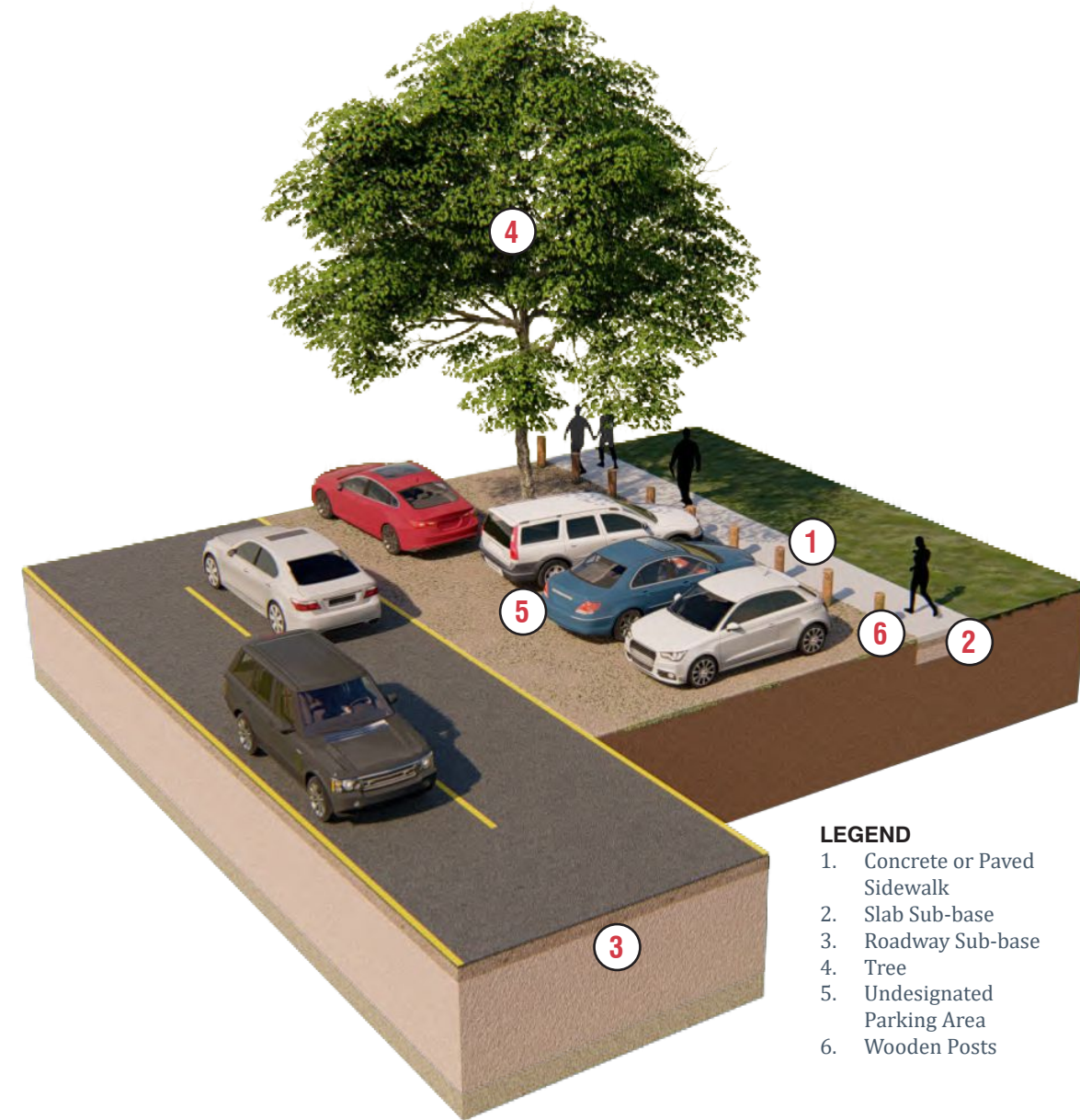
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SUSTAINABLE DESIGN VIGNETTES

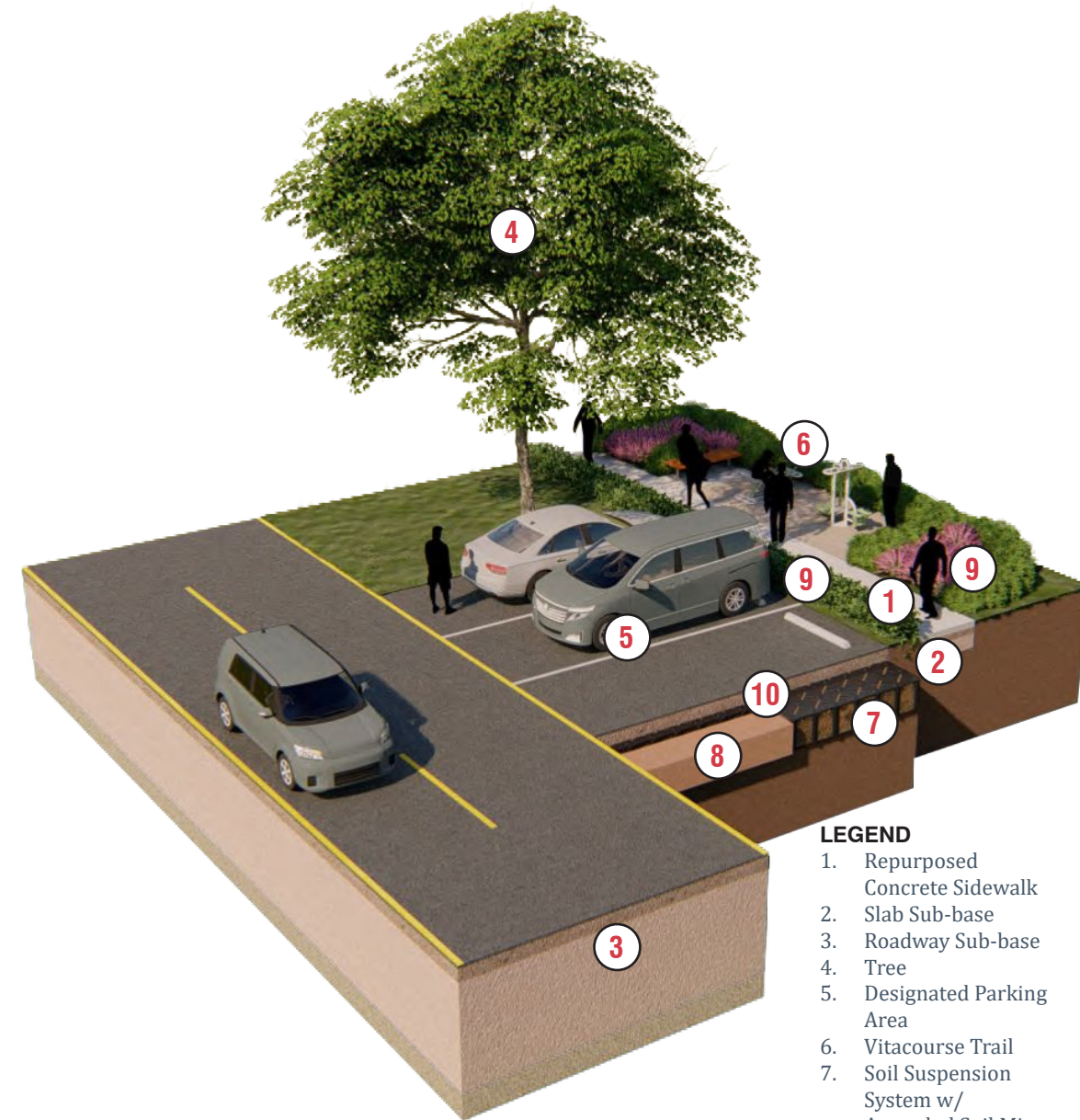
03MODULE

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- LEGEND**
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 - 5. Undesignated Parking Area
 - 6. Wooden Posts

90-Degree Parking - 02 | Existing Conditions



LEGEND

- | | |
|---|--|
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| 2. Slab Sub-base | 9. Proposed Planting Buffer |
| 3. Roadway Sub-base | 10. Asphalt Sub-base |
| 4. Tree | |
| 5. Designated Parking Area | |
| 6. Vitacourse Trail | |
| 7. Soil Suspension System w/ Amended Soil Mix | |

90-Degree Parking | Asphalt w/ Silva Cell



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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

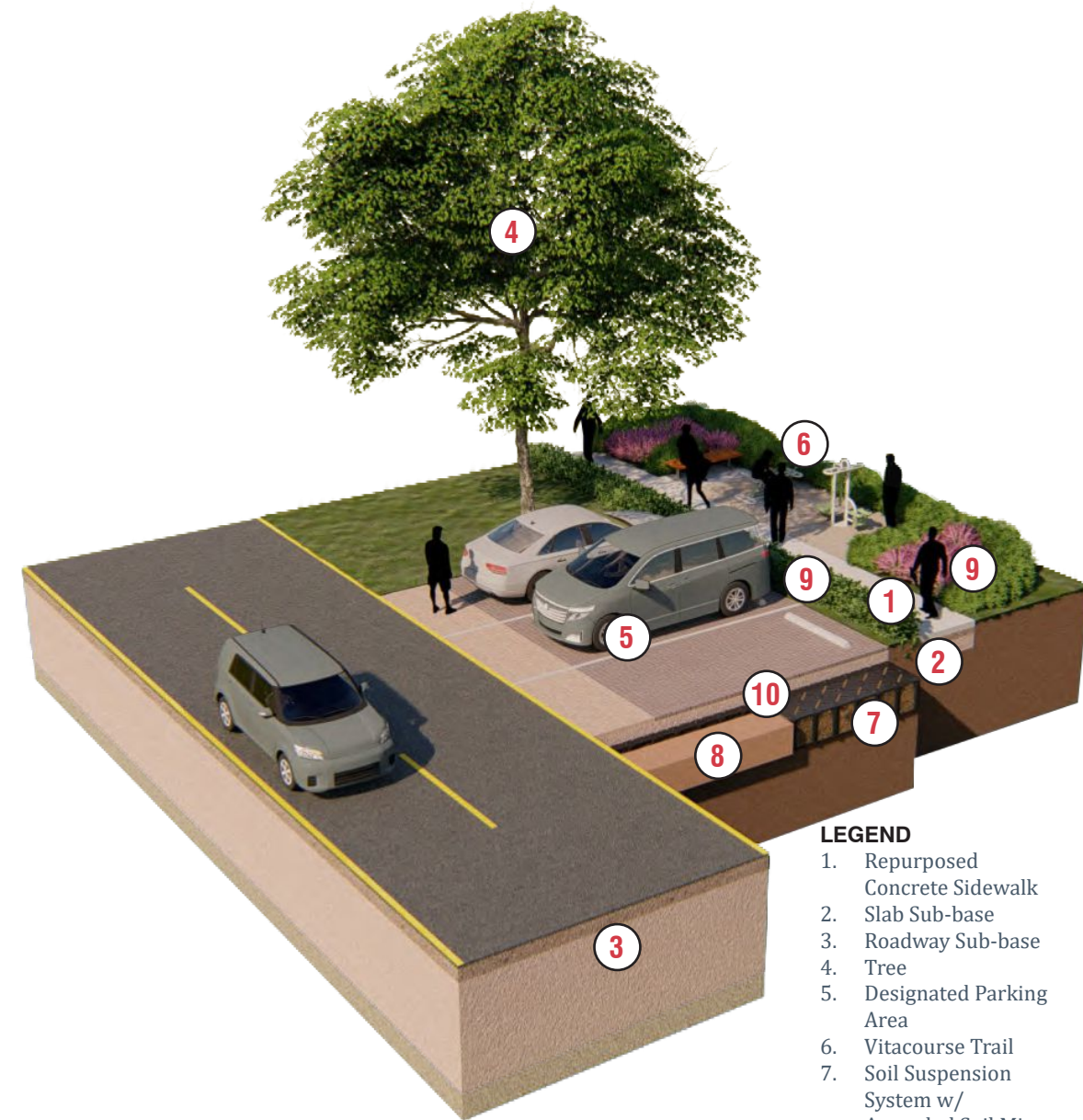
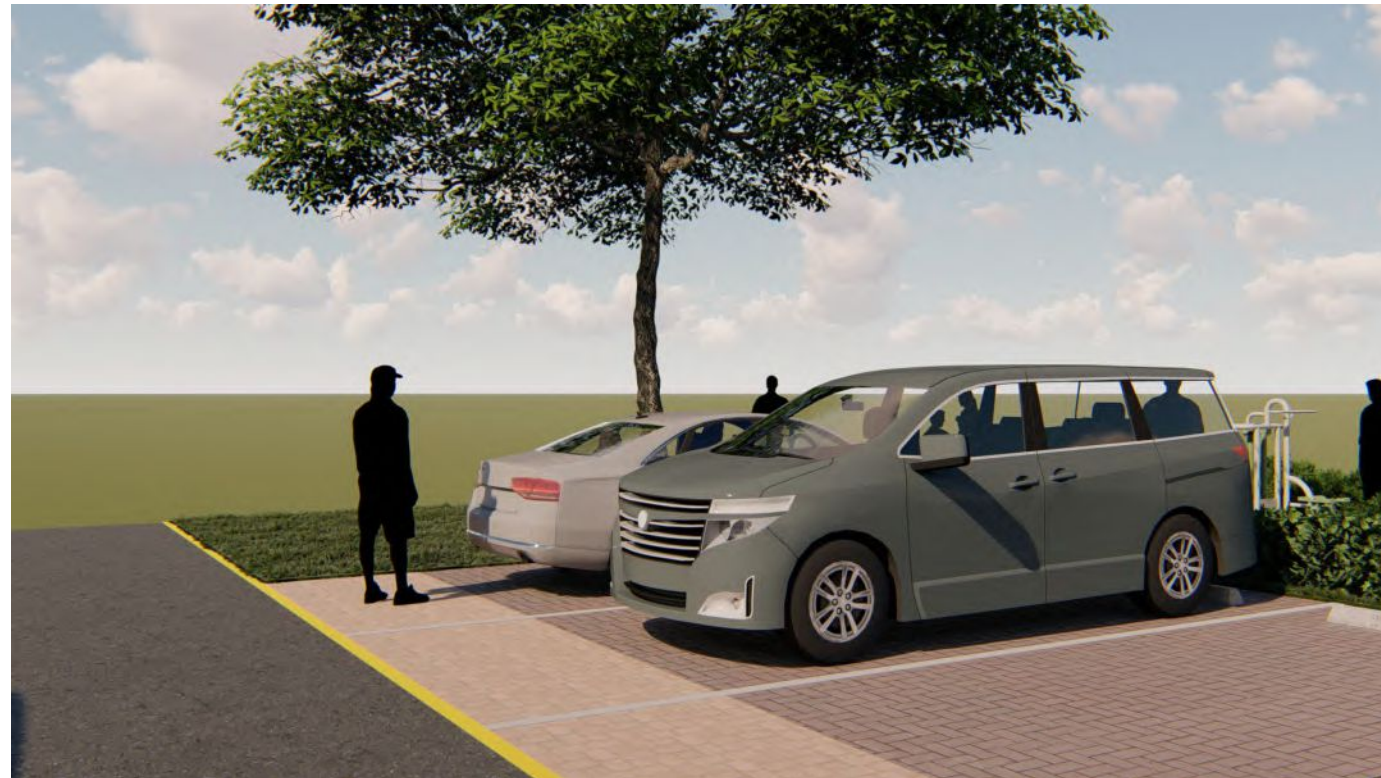
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SUSTAINABLE DESIGN VIGNETTES

03MODULE

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LEGEND

- | | |
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| 4. Tree | |
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| 7. Soil Suspension System w/ Amended Soil Mix | |

90-Degree Parking | Pavers w/ Silva Cell



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CONCEPTUAL PARKING LAYOUTS

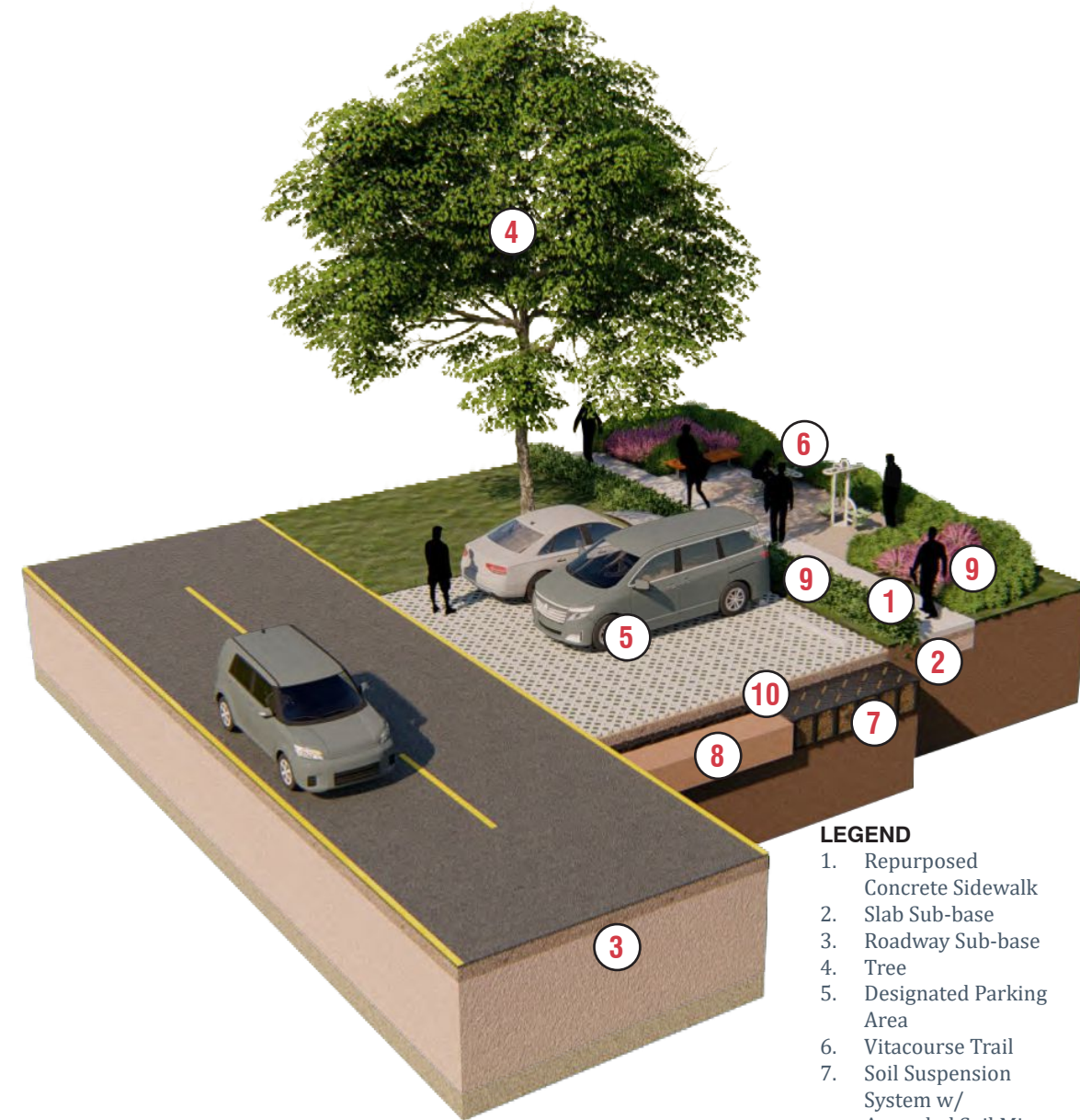
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SUSTAINABLE DESIGN VIGNETTES

03MODULE

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LEGEND

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| 2. Slab Sub-base | 9. Proposed Planting Buffer |
| 3. Roadway Sub-base | 10. Paverlock Sand and Sub-base |
| 4. Tree | |
| 5. Designated Parking Area | |
| 6. Vitacourse Trail | |
| 7. Soil Suspension System w/ Amended Soil Mix | |

90-Degree Parking | Paverlock w/ Silva Cell



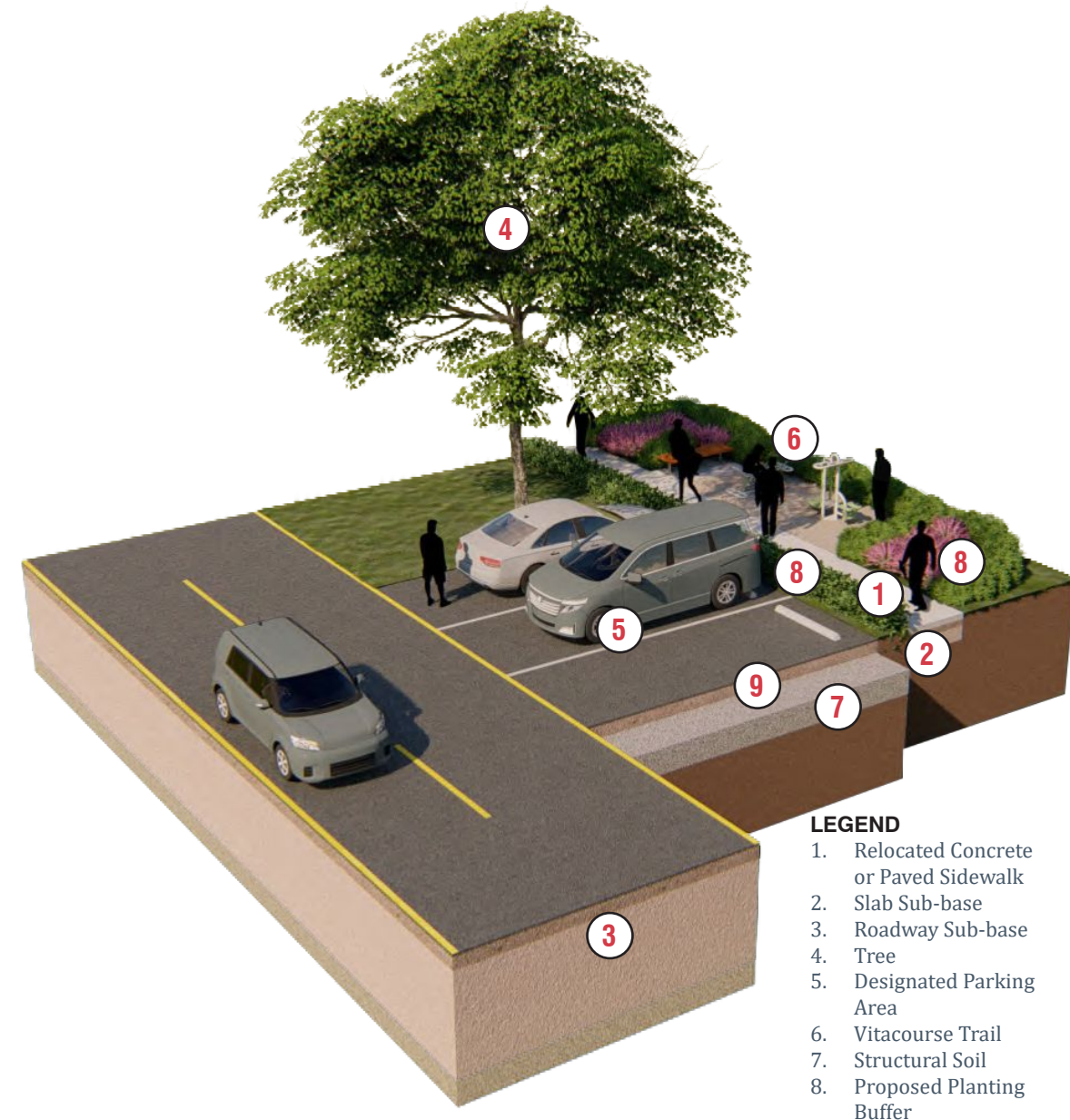
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CONCEPTUAL PARKING LAYOUTS

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LEGEND

1. Relocated Concrete or Paved Sidewalk
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5. Designated Parking Area
6. Vitacourse Trail
7. Structural Soil
8. Proposed Planting Buffer

9. Asphalt Sub-base Course

90-Degree Parking | Asphalt w/ Structural Soils



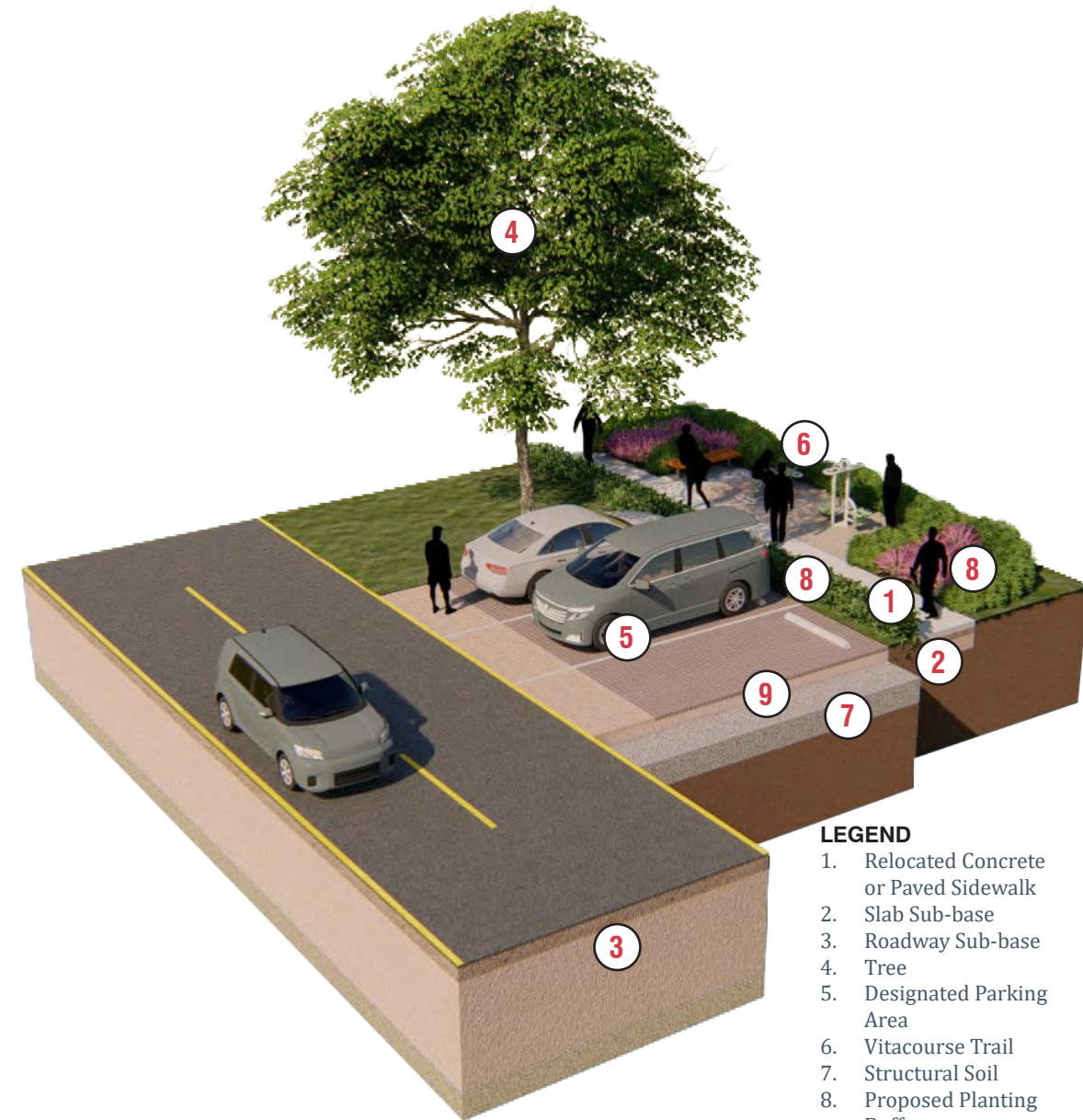
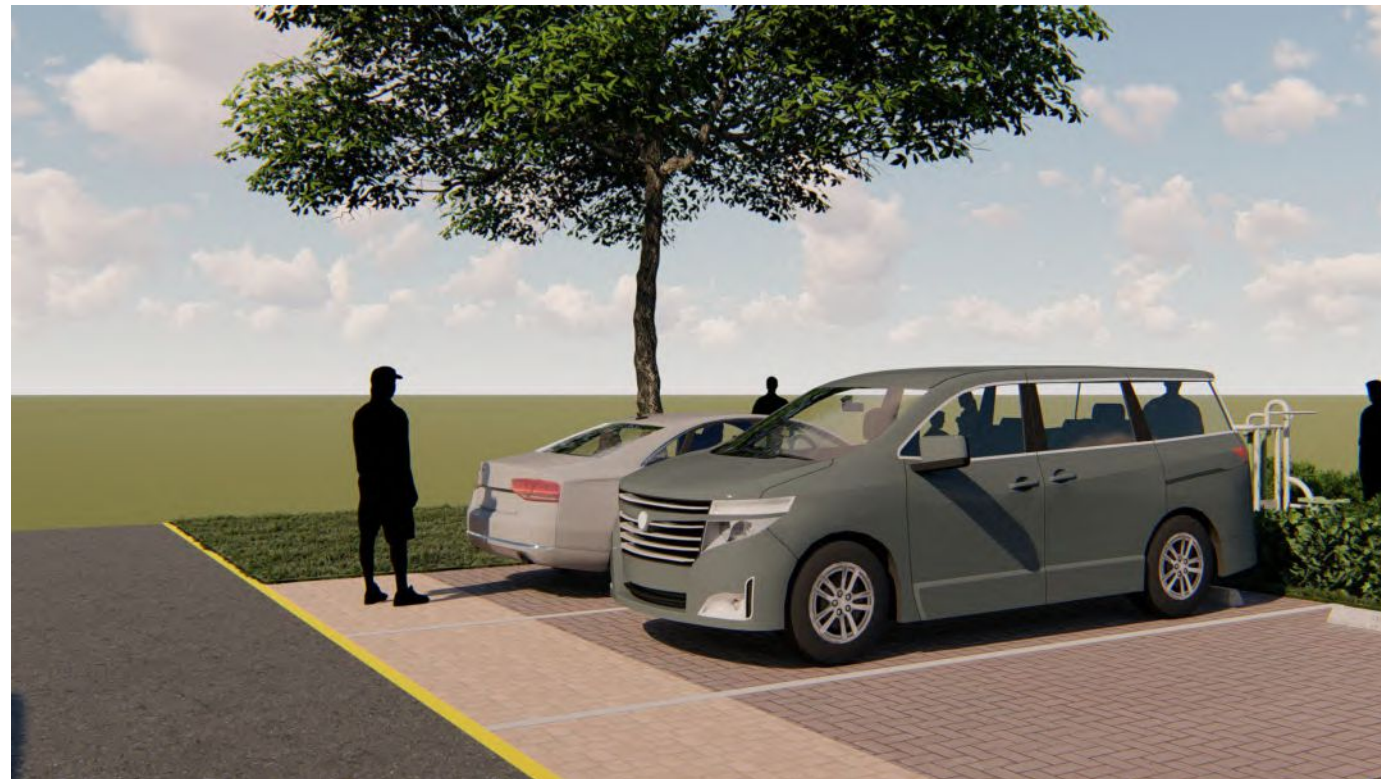
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7. Structural Soil
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9. Paver Sand and Sub-base Course

90-Degree Parking | Pavers w/ Structural Soils

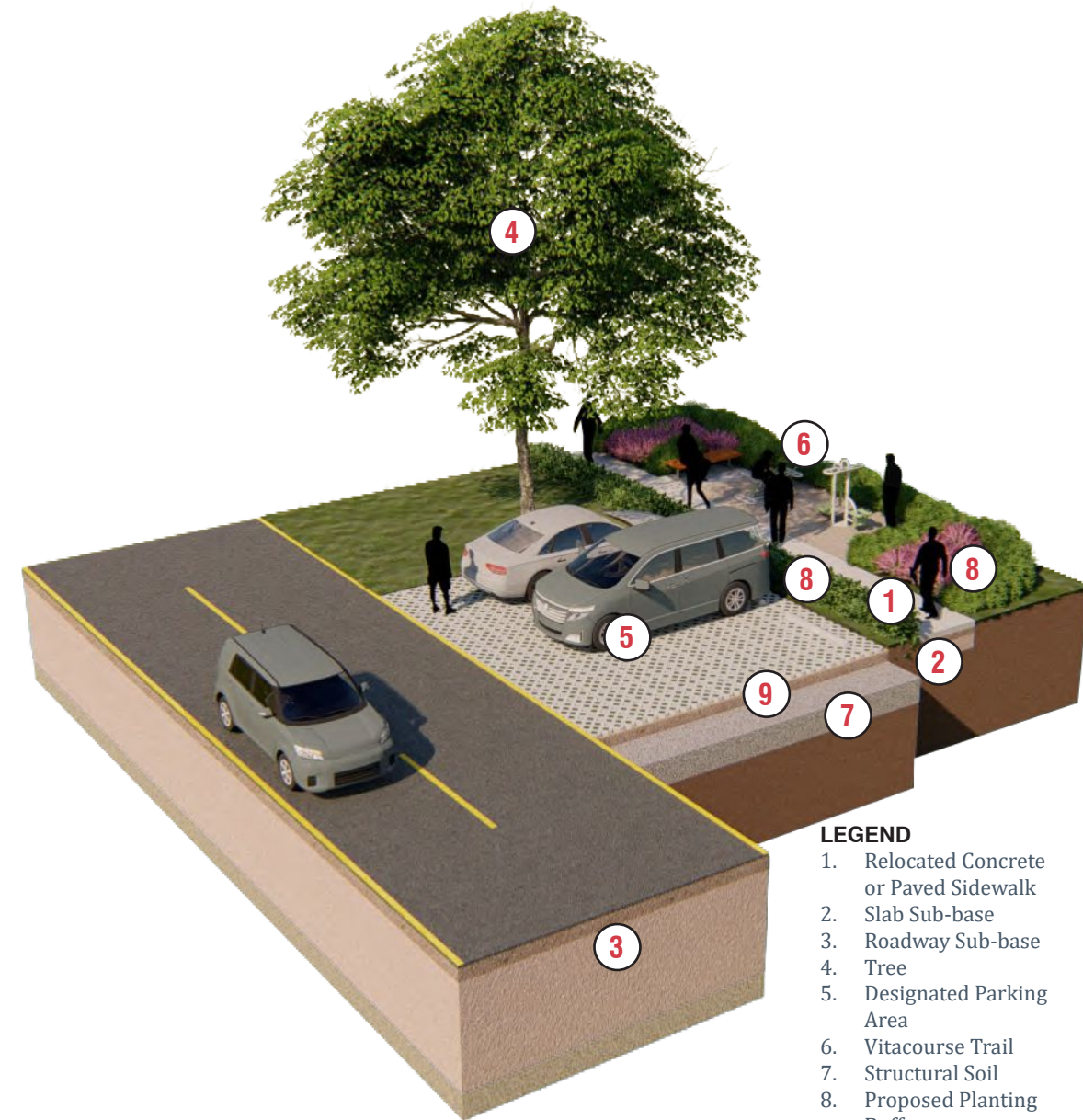
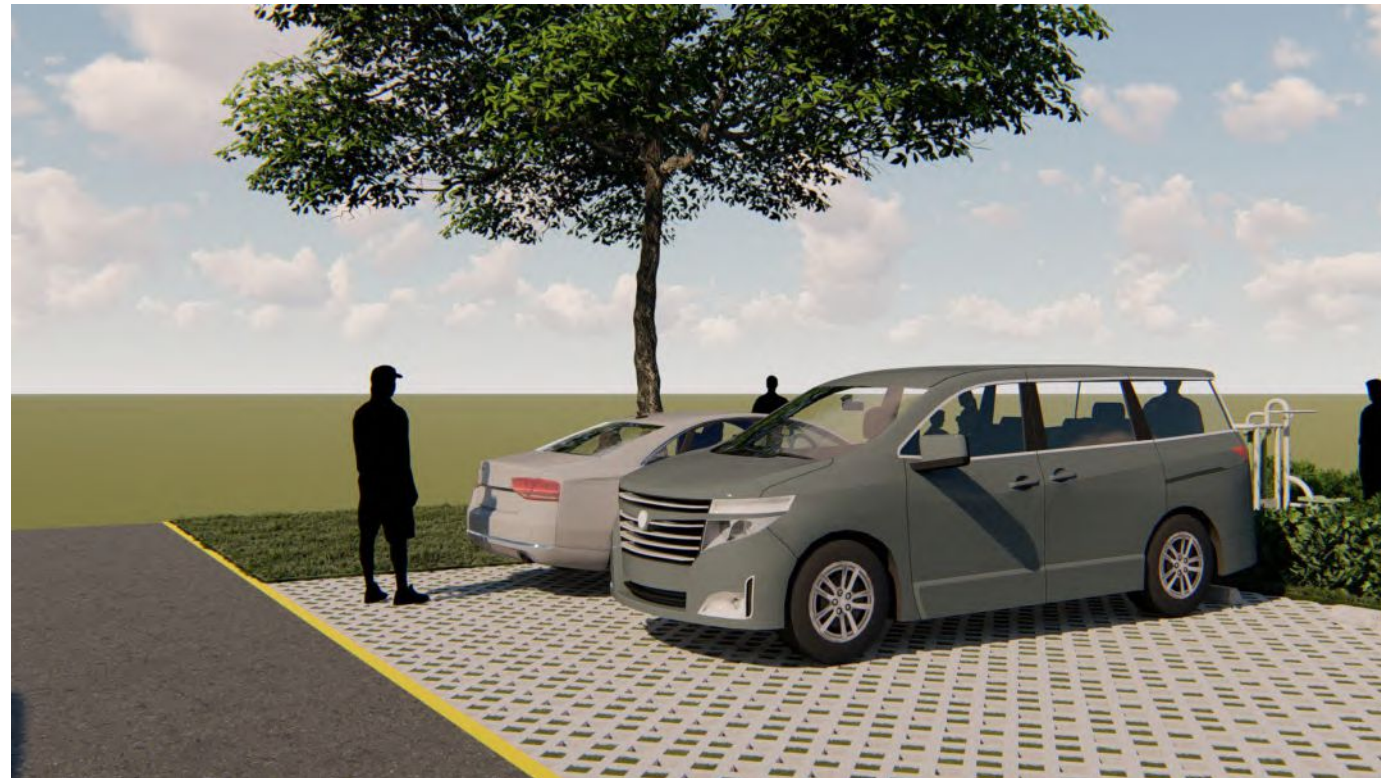


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LEGEND

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9. Paverlock Sand and Sub-base Course

90-Degree Parking | Paverlock w/ Structural Soils

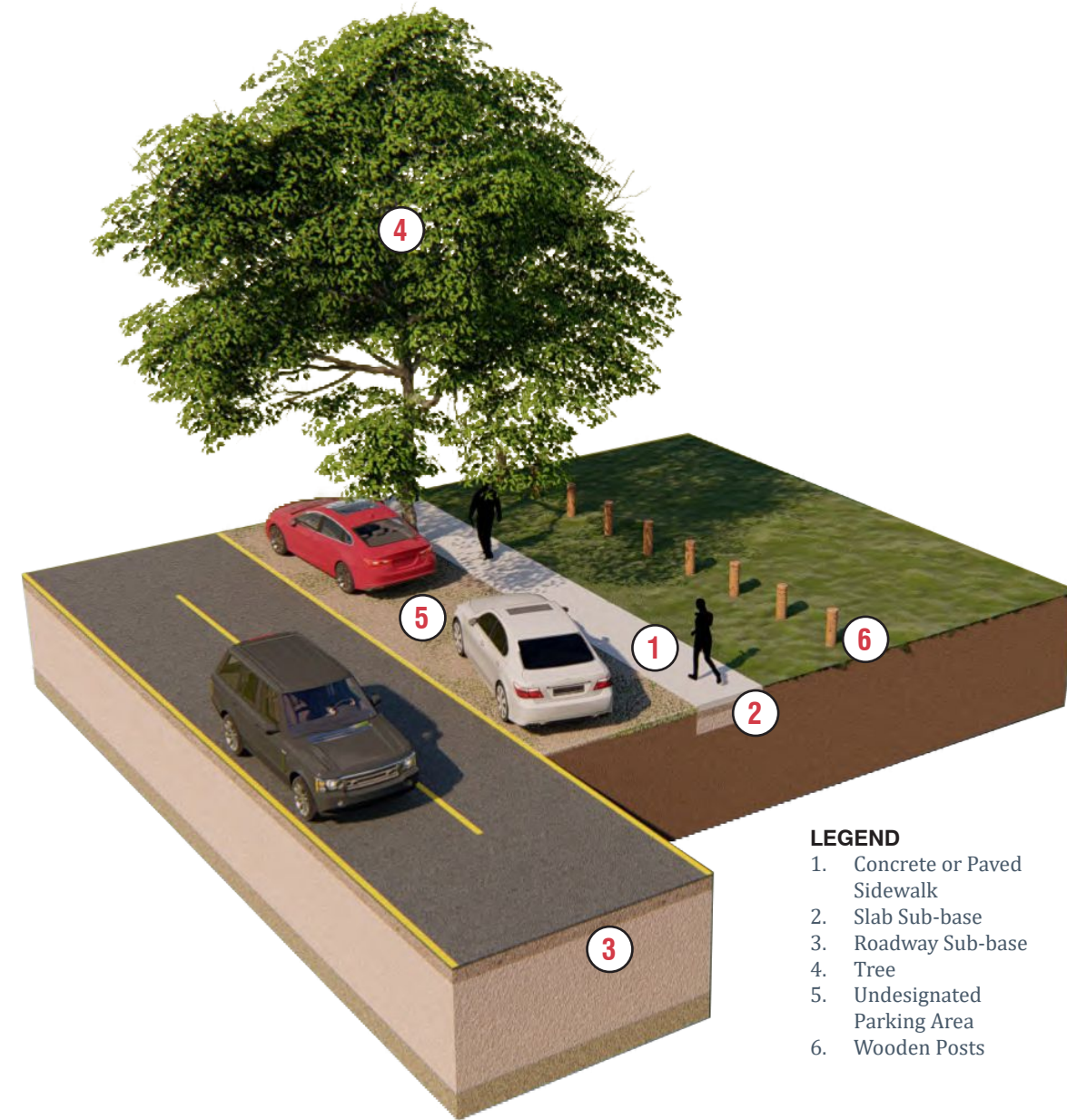


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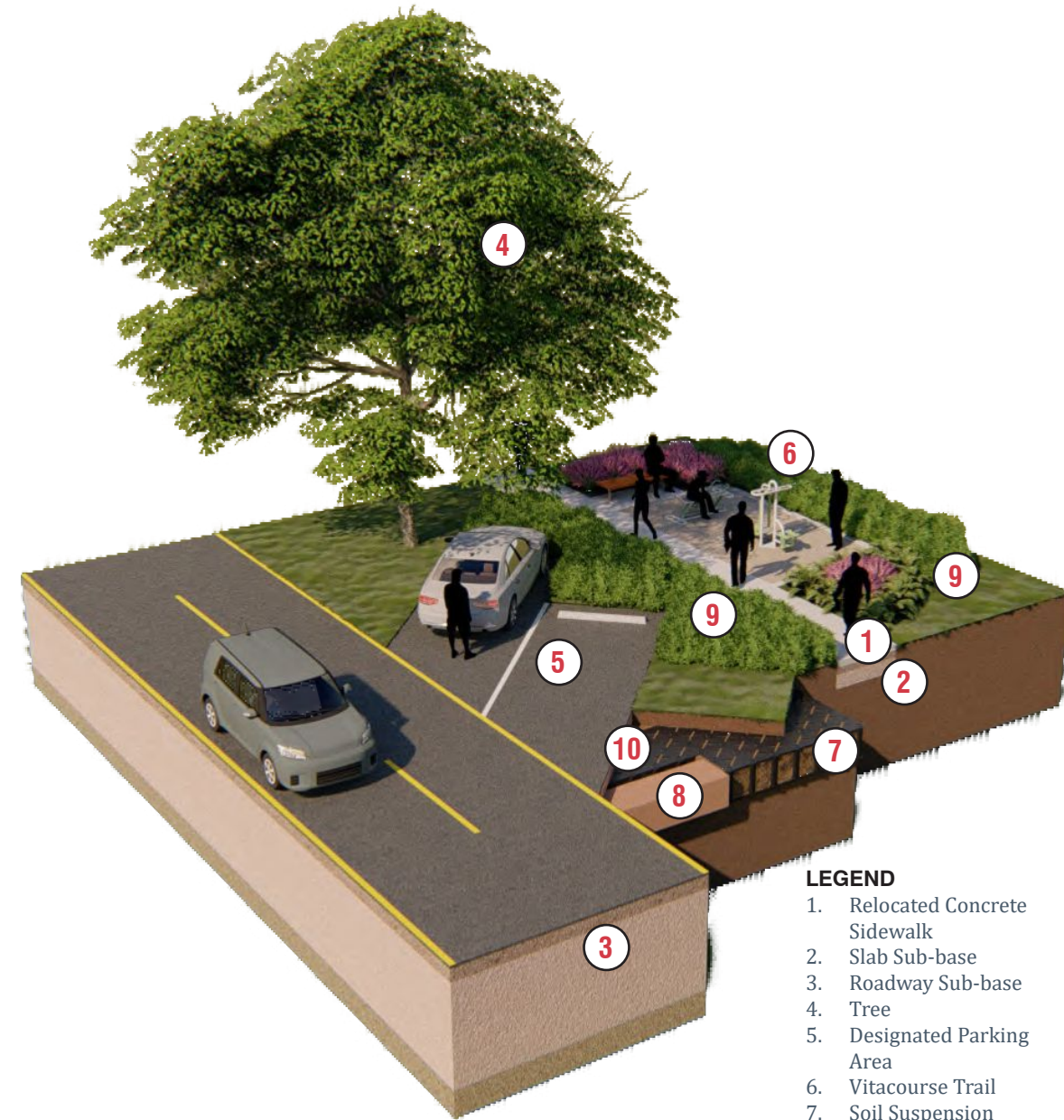
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 - 6. Wooden Posts

45-Degree Parking | Existing Conditions



LEGEND

- | | |
|---|--|
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| 2. Slab Sub-base | 9. Proposed Planting Buffer |
| 3. Roadway Sub-base | 10. Asphalt Sub-base |
| 4. Tree | |
| 5. Designated Parking Area | |
| 6. Vitacourse Trail | |
| 7. Soil Suspension System w/ Amended Soil Mix | |

45-Degree Parking | Asphalt w/ Silva Cell



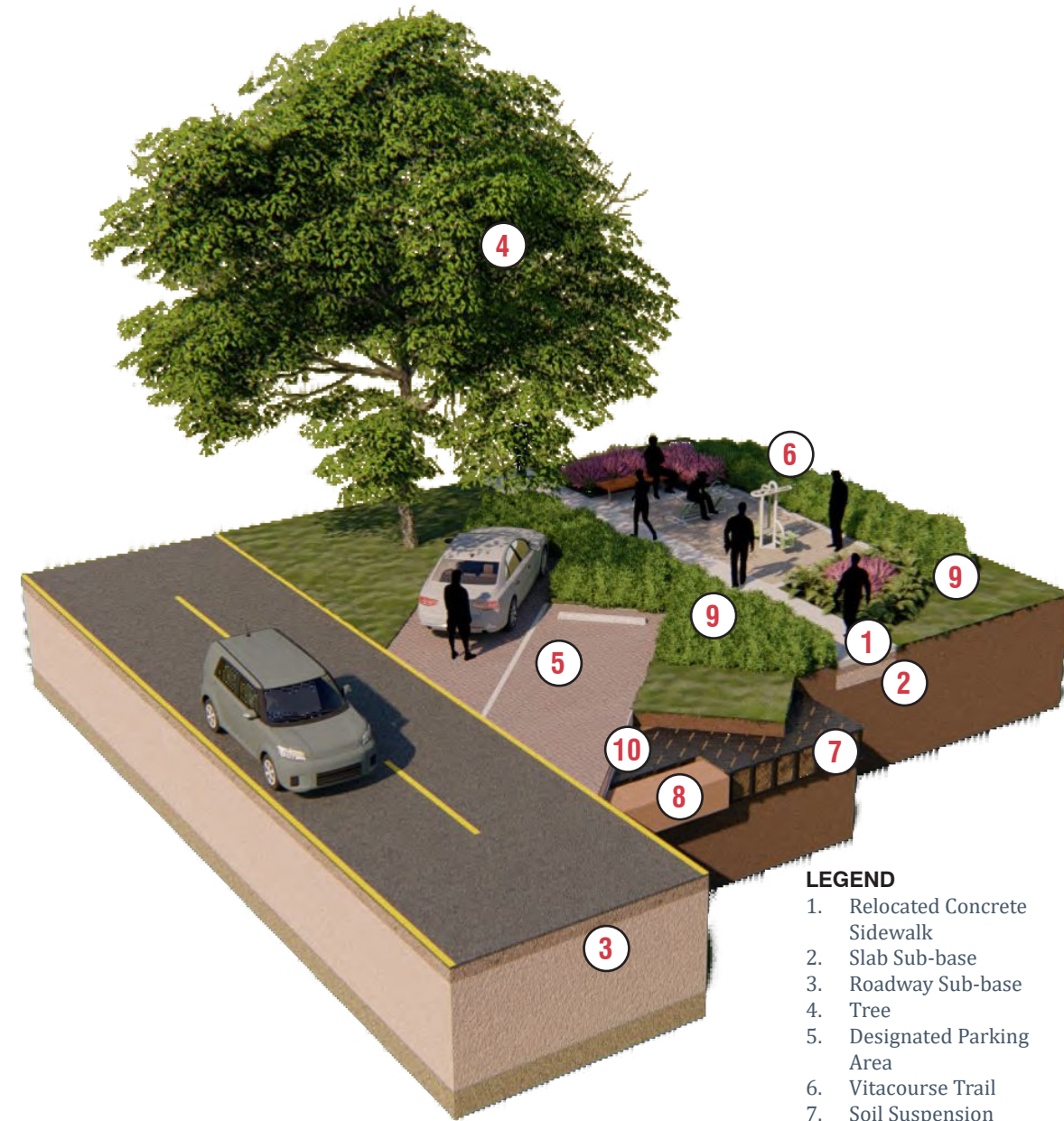
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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

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LEGEND

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| 7. Soil Suspension System w/ Amended Soil Mix | |

45-Degree Parking | Pavers w/ Silva Cell



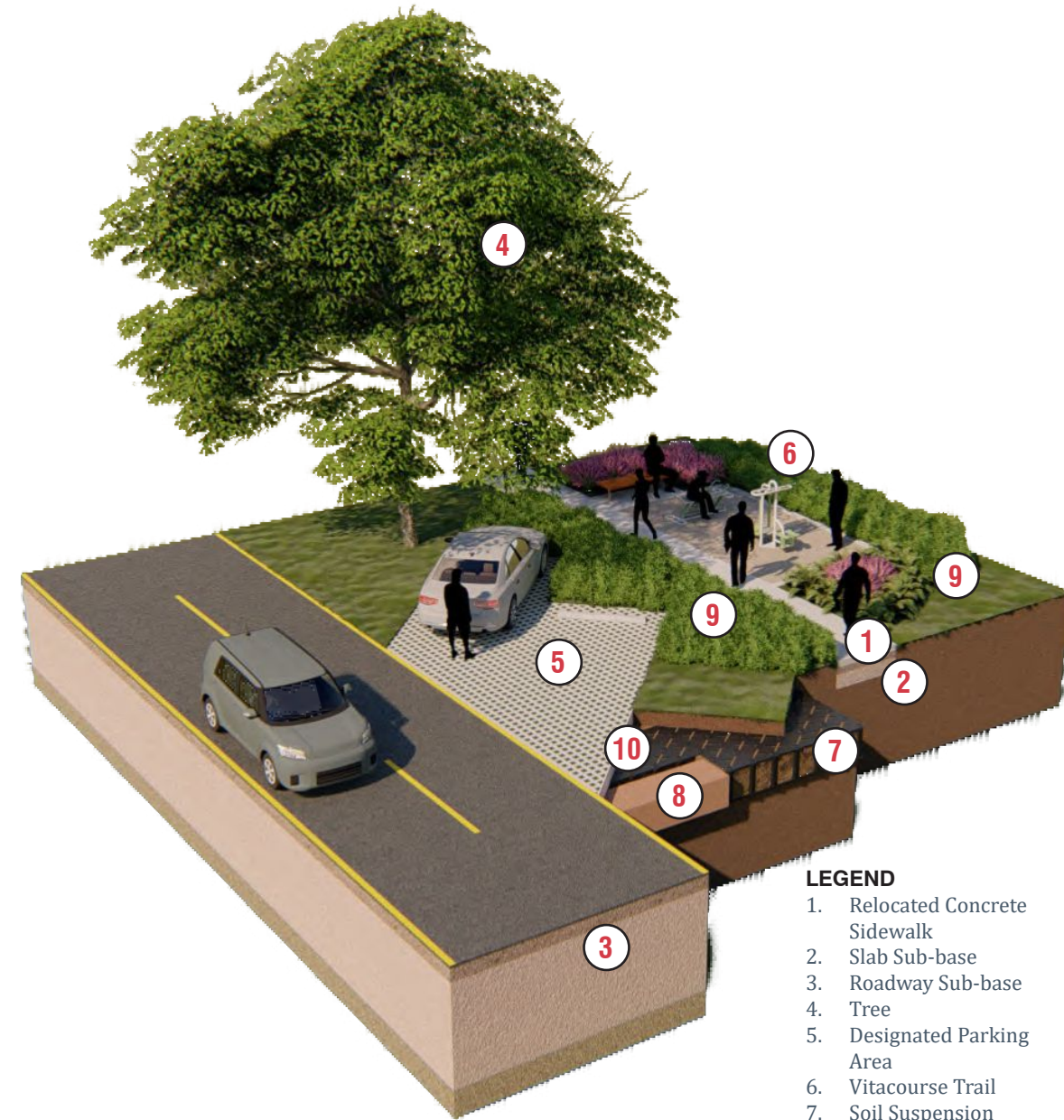
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VILLAGE OF BISCAYNE PARK

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45-Degree Parking | Paverlock w/ Silva Cell



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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

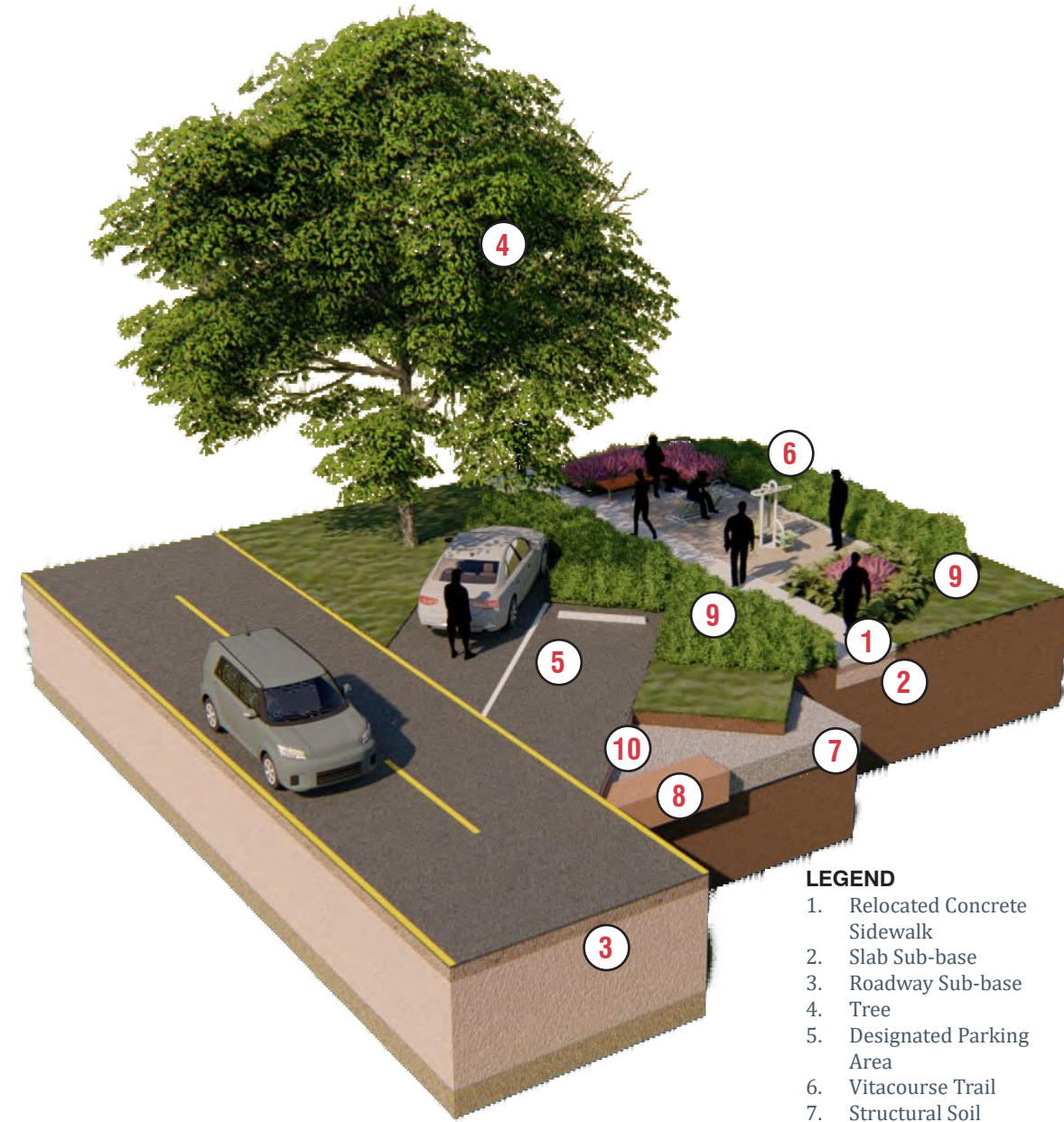
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- LEGEND**
- 1. Relocated Concrete Sidewalk
 - 2. Slab Sub-base
 - 3. Roadway Sub-base
 - 4. Tree
 - 5. Designated Parking Area
 - 6. Vitacourse Trail
 - 7. Structural Soil
 - 8. Critical Rootball Area of Existing Tree
 - 9. Proposed Planting Buffer
 - 10. Asphalt Sub-base

45-Degree Parking | Asphalt w/ Structural Soils



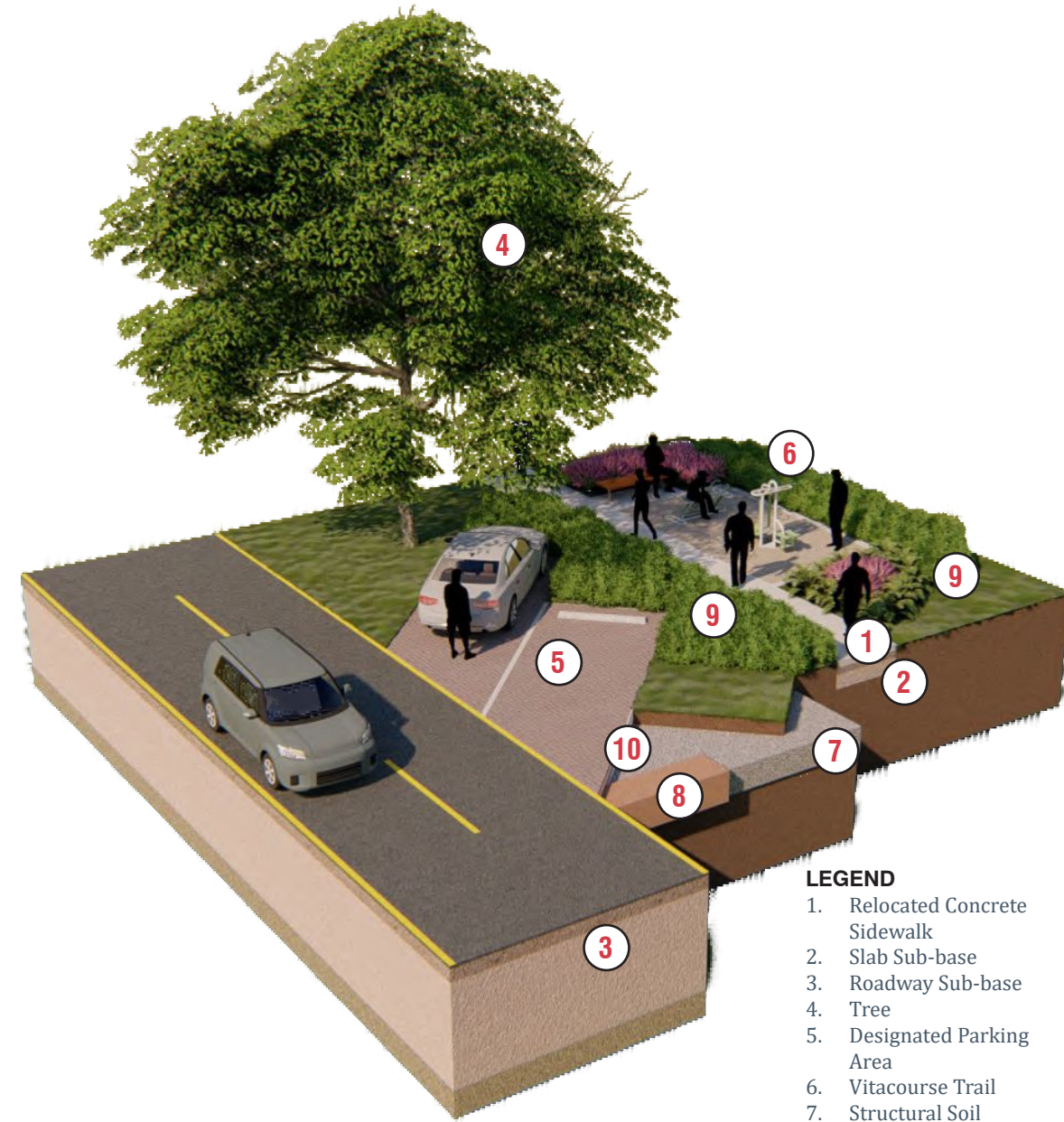
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VILLAGE OF BISCAYNE PARK

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LEGEND

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45-Degree Parking | Pavers w/ Structural Soils



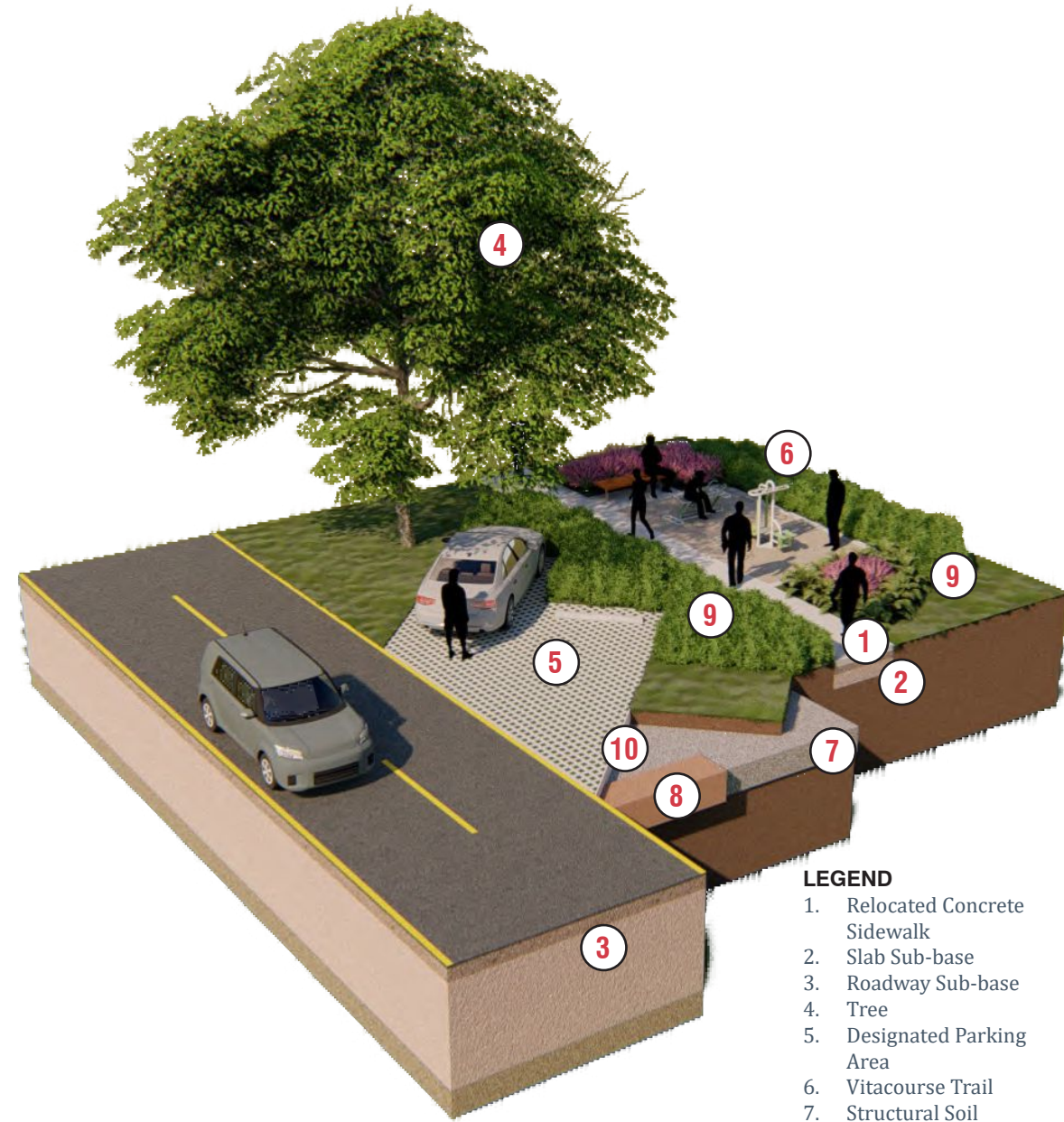
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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

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LEGEND

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45-Degree Parking | Paverlock w/ Structural Soils



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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

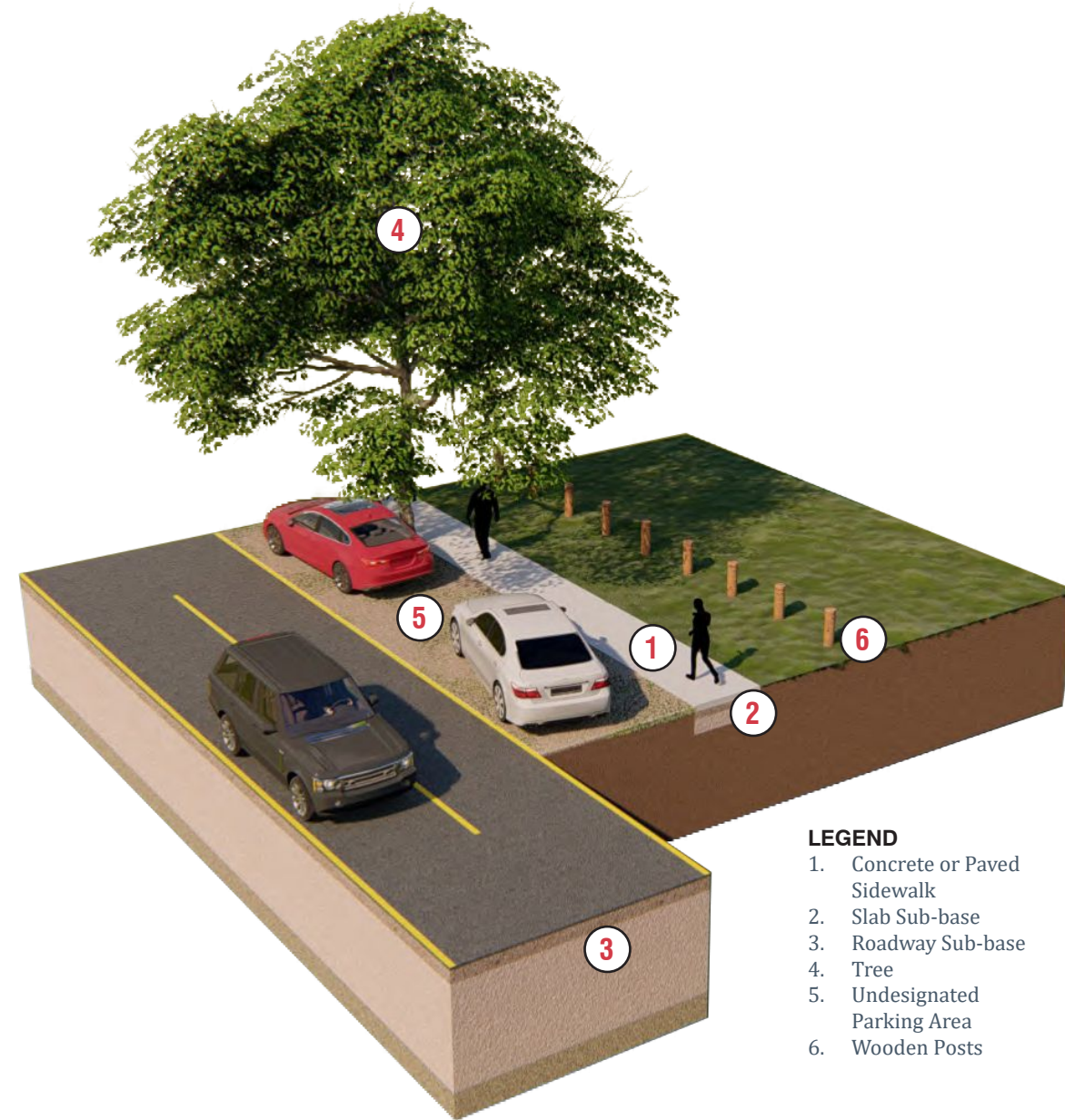
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SUSTAINABLE DESIGN VIGNETTES

03MODULE

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45-Degree Back-in Parking | Existing Conditions



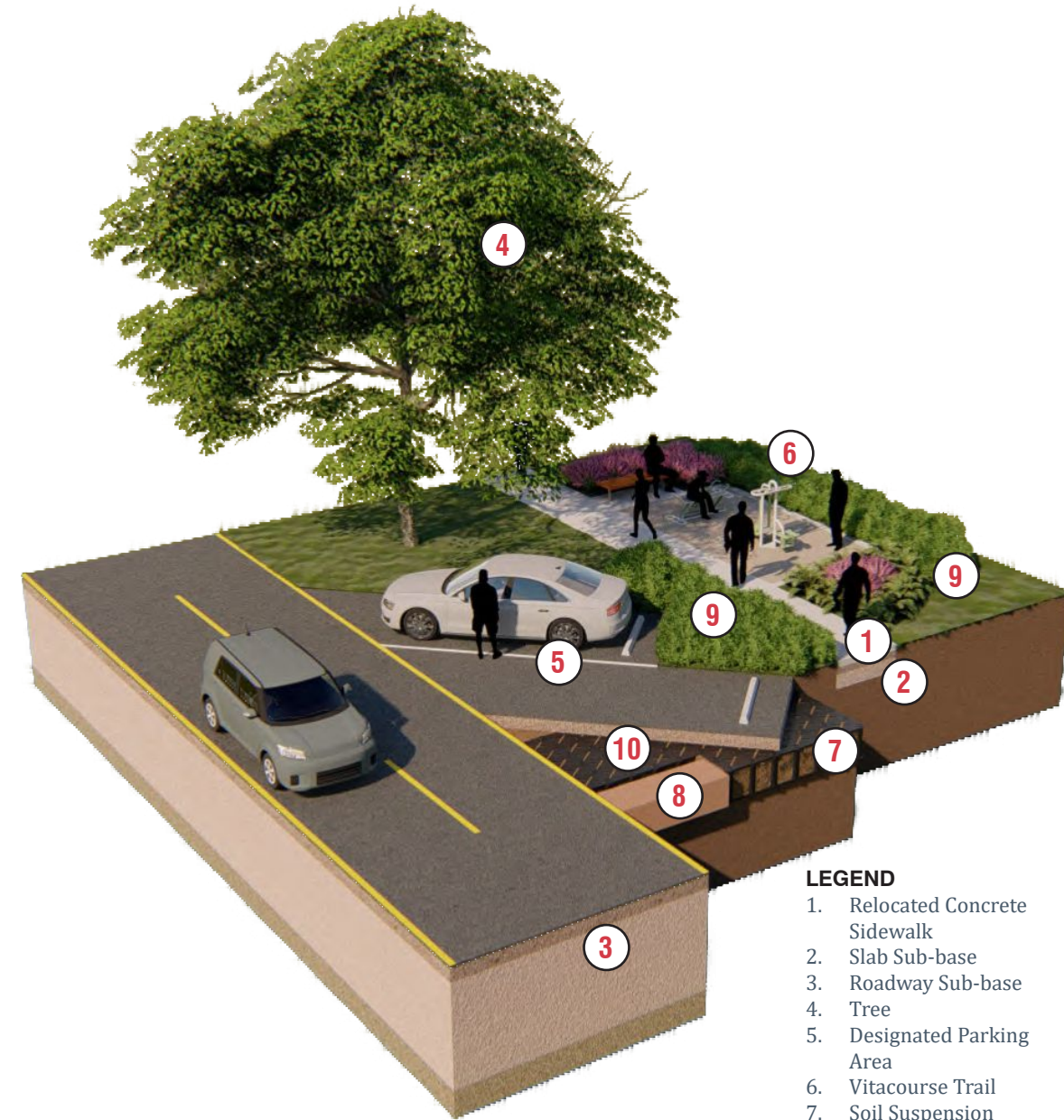
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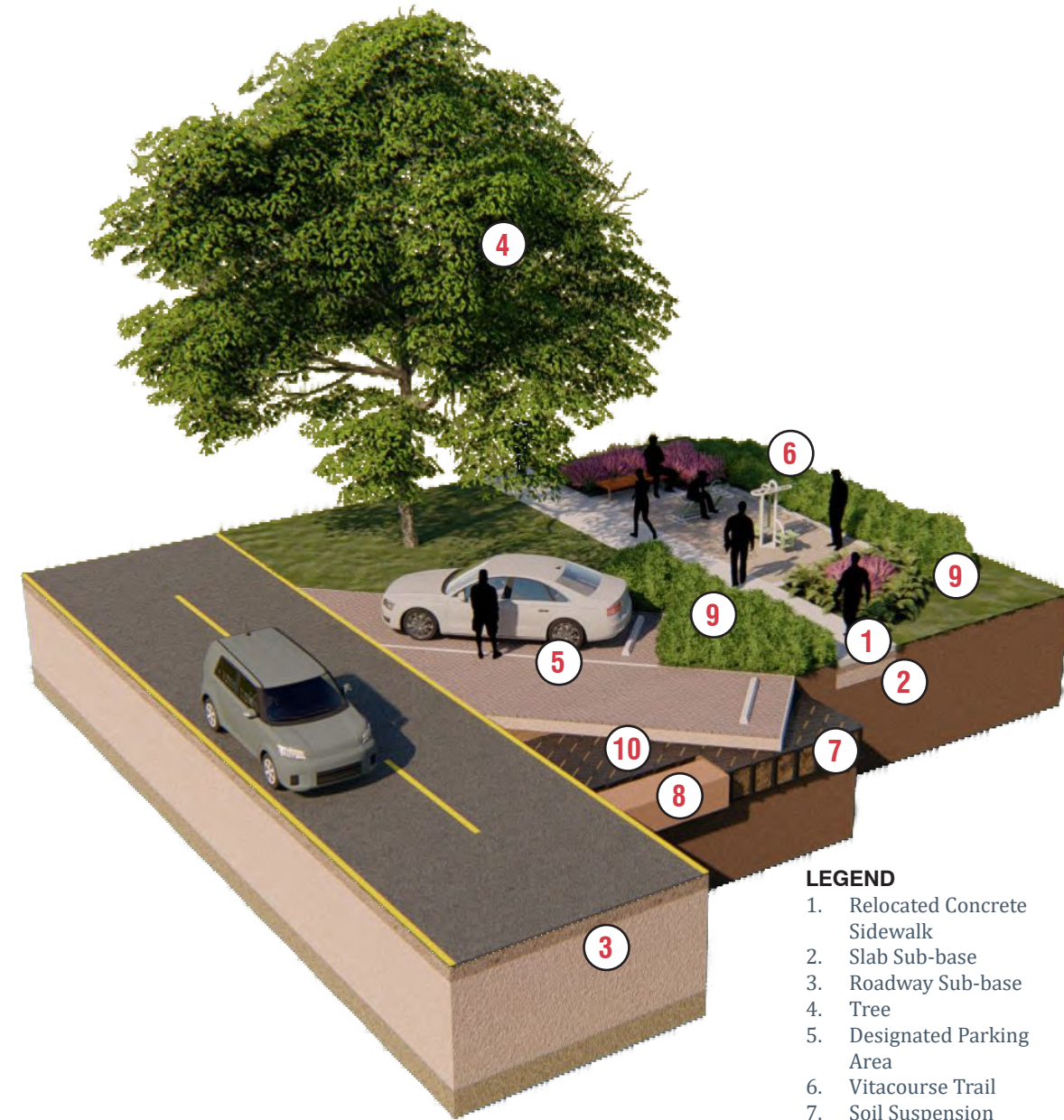
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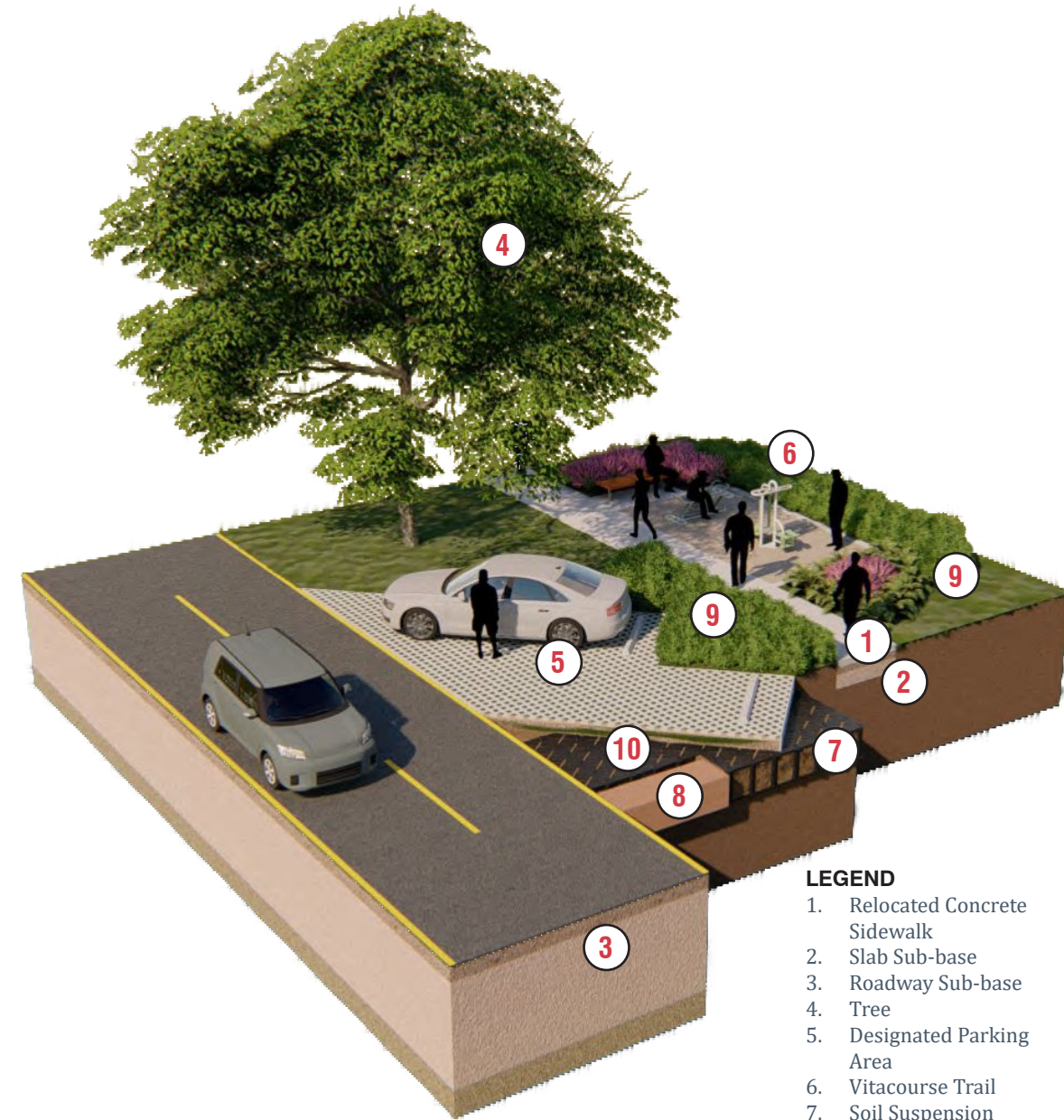
- LEGEND**
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 - 8. Critical Rootball Area of Existing Tree
 - 9. Proposed Planting Buffer
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45-Degree Back-in Parking | Asphalt w/ Silva Cell



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45-Degree Back-in Parking | Pavers w/ Silva Cell



LEGEND

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45-Degree Back-in Parking | Paverlock w/ Silva Cell



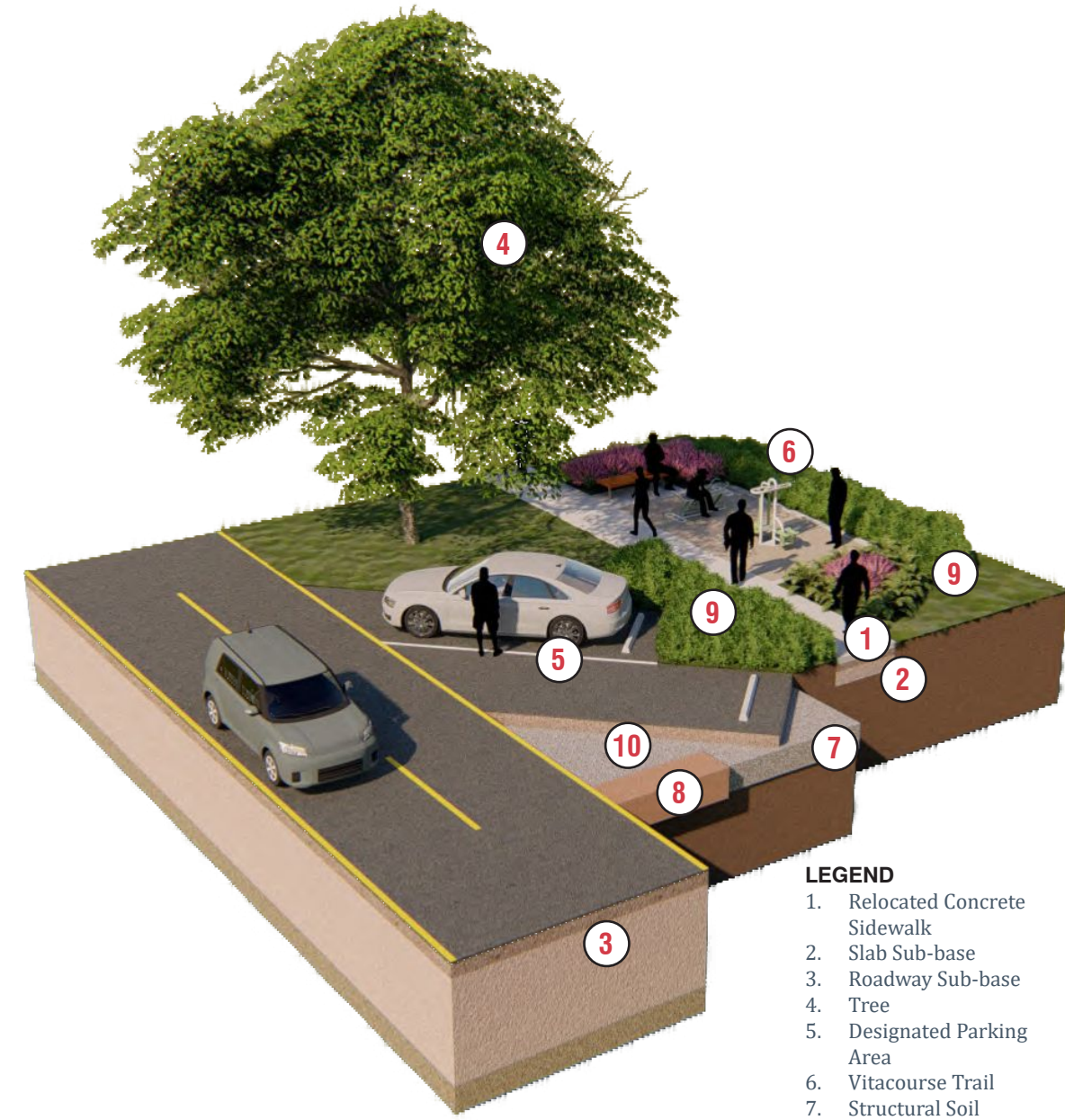
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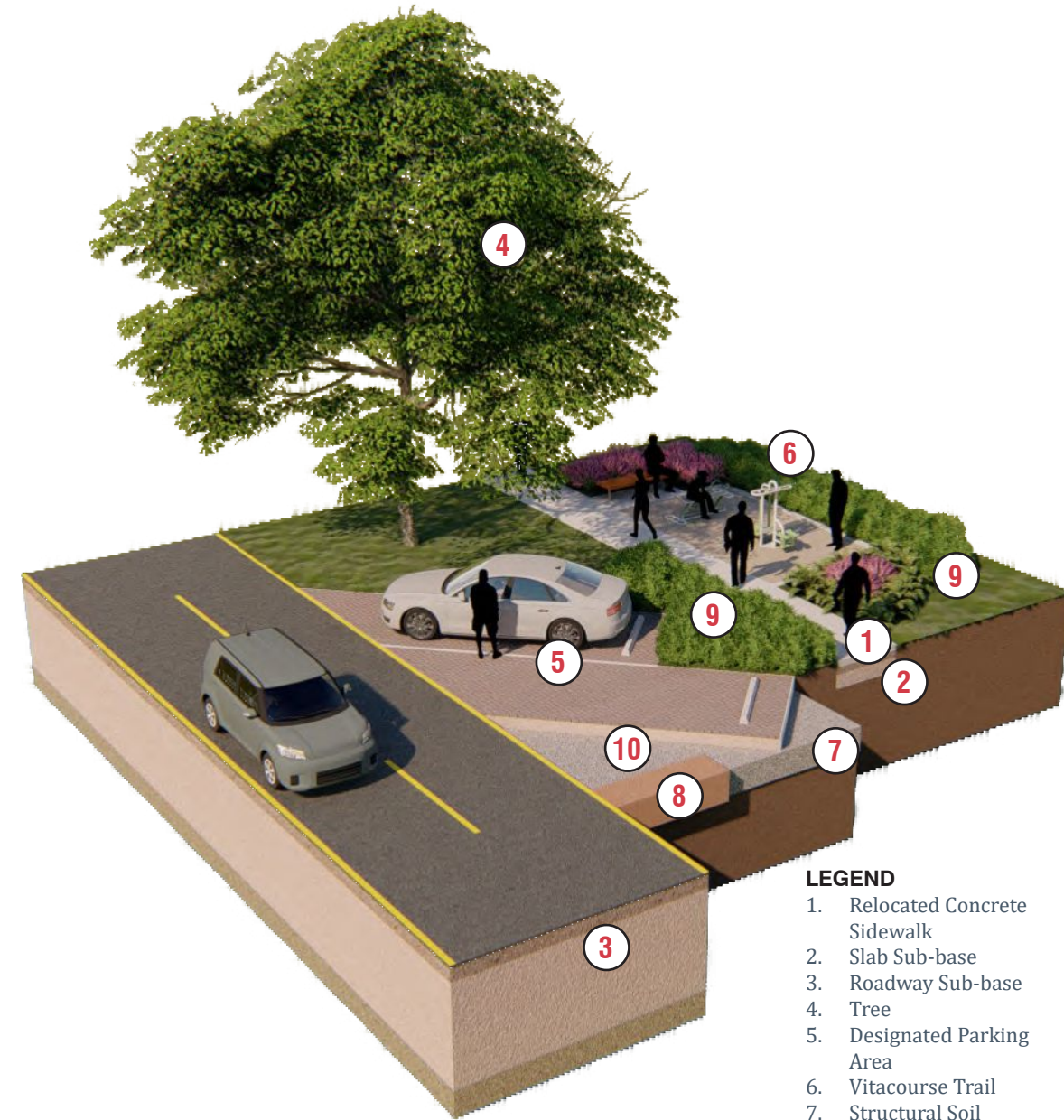
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45-Degree Back-in Parking | Asphalt w/ Structural Soils



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45-Degree Back-in Parking | Pavers w/ Structural Soils



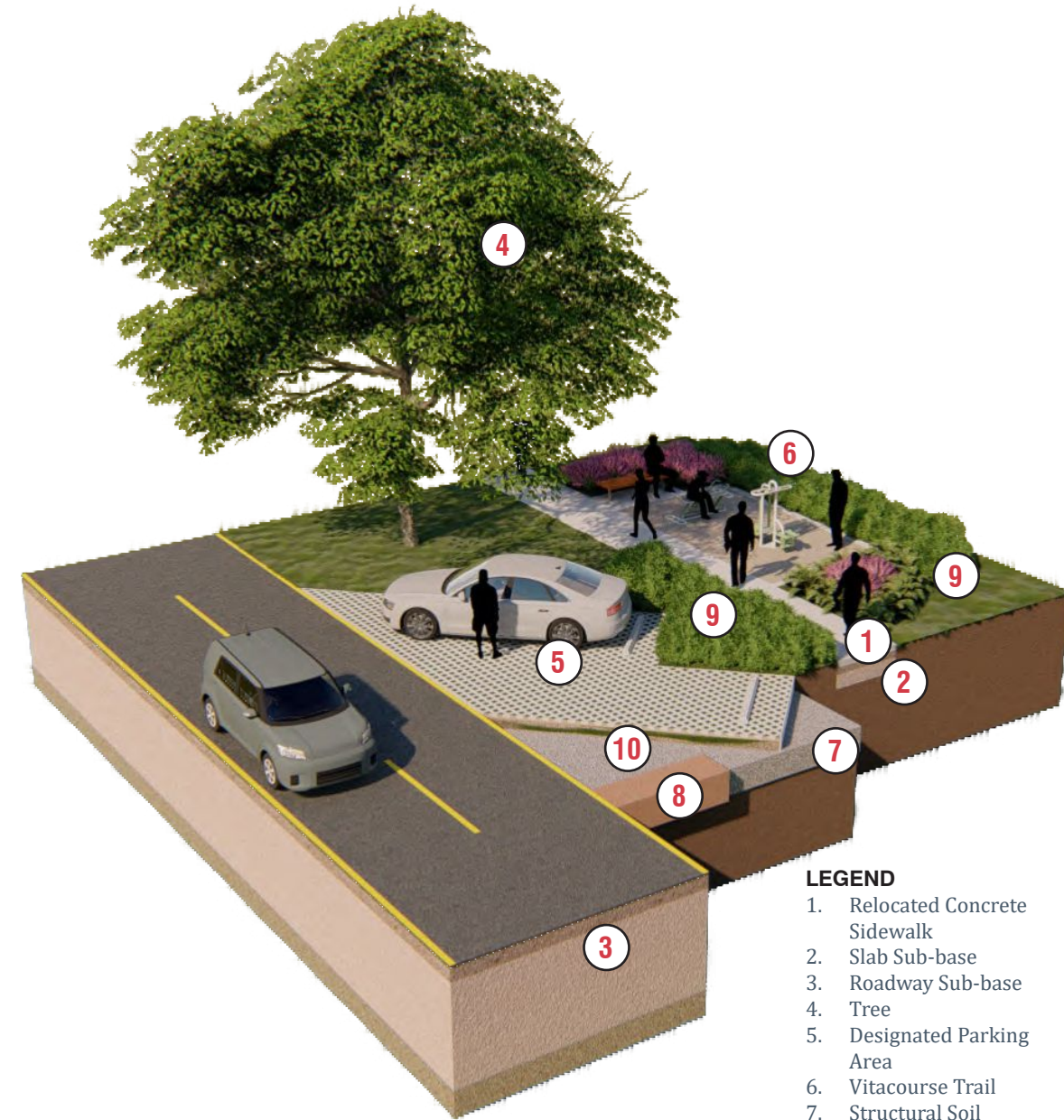
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45-Degree Back-in Parking | Paverlock w/ Structural Soils



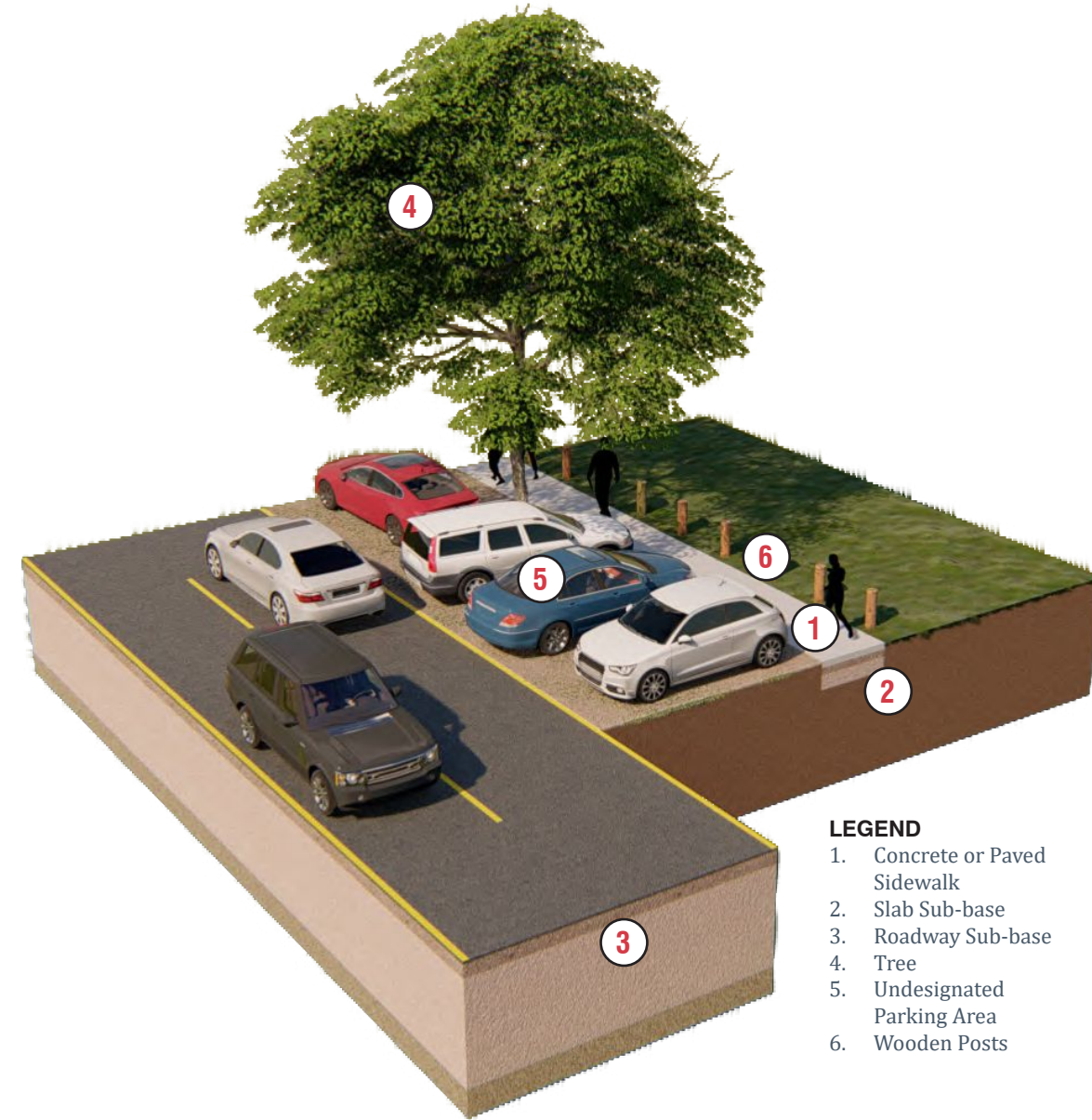
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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

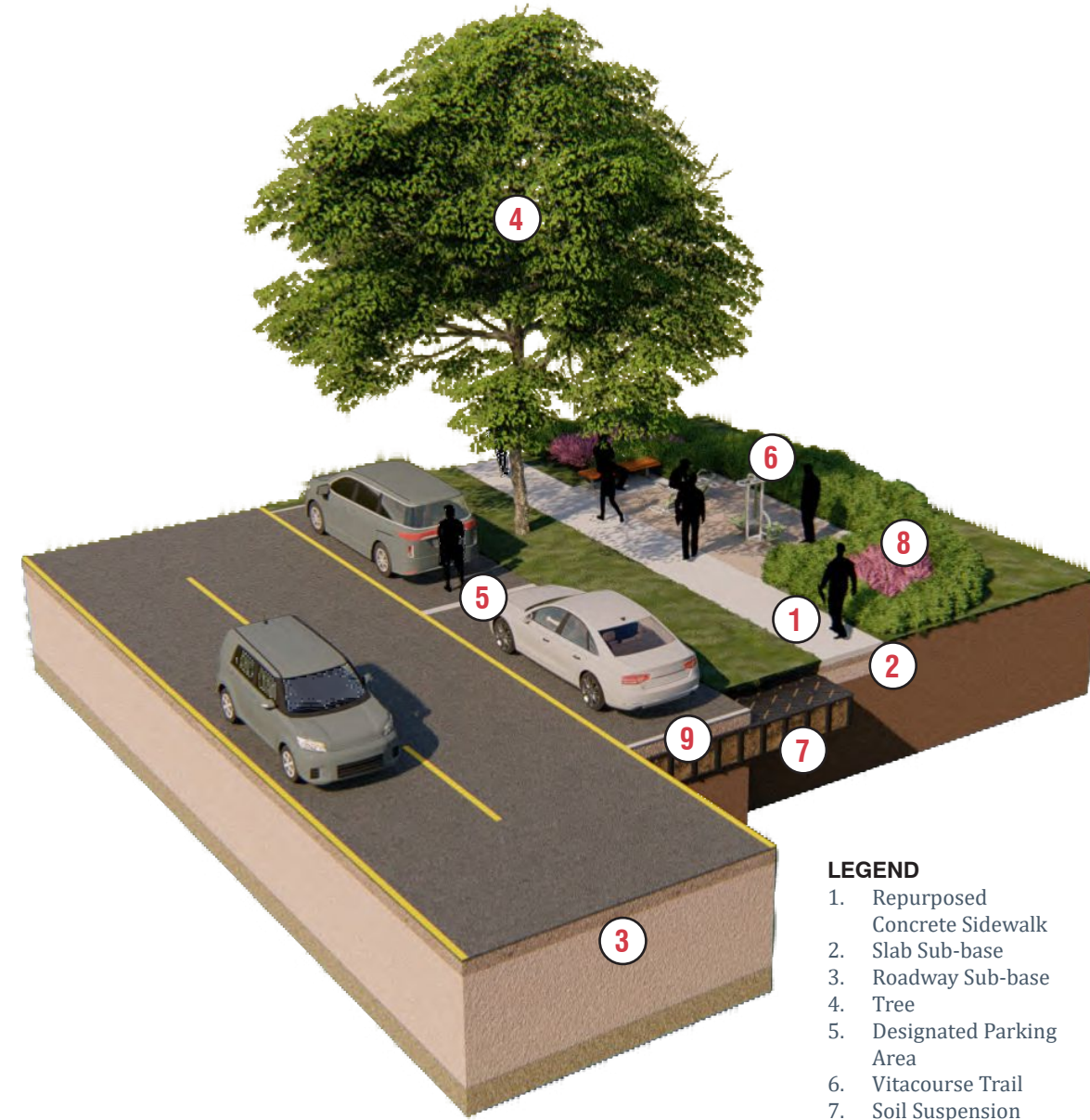
PARK PARKING MASTER PLAN

OCTOBER 14, 2021



- LEGEND**
- 1. Concrete or Paved Sidewalk
 - 2. Slab Sub-base
 - 3. Roadway Sub-base
 - 4. Tree
 - 5. Undesignated Parking Area
 - 6. Wooden Posts

Parallel Parking | Existing Conditions



LEGEND

- | | |
|---|-----------------------------|
| 1. Repurposed Concrete Sidewalk | 8. Proposed Planting Buffer |
| 2. Slab Sub-base | 9. Asphalt Sub-base |
| 3. Roadway Sub-base | |
| 4. Tree | |
| 5. Designated Parking Area | |
| 6. Vitacourse Trail | |
| 7. Soil Suspension System w/ Amended Soil Mix | |

Parallel Parking | Asphalt w/ Silva Cell



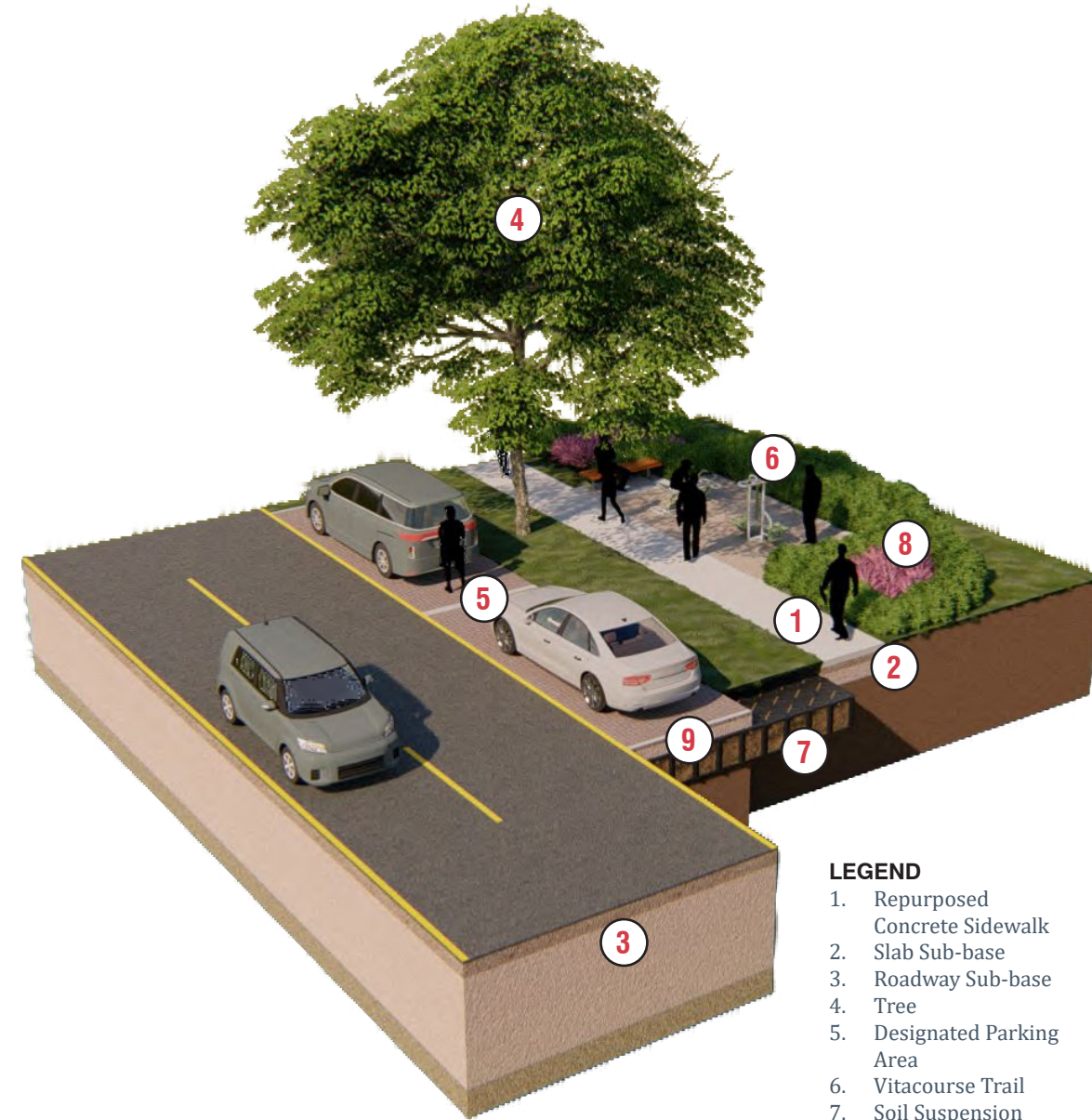
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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

PARK PARKING MASTER PLAN

OCTOBER 14, 2021



LEGEND

- | | |
|---|-----------------------------|
| 1. Repurposed Concrete Sidewalk | 8. Proposed Planting Buffer |
| 2. Slab Sub-base | 9. Paver Sand and Sub-base |
| 3. Roadway Sub-base | |
| 4. Tree | |
| 5. Designated Parking Area | |
| 6. Vitacourse Trail | |
| 7. Soil Suspension System w/ Amended Soil Mix | |

Parallel Parking | Pavers w/ Silva Cell



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VILLAGE OF BISCAYNE PARK

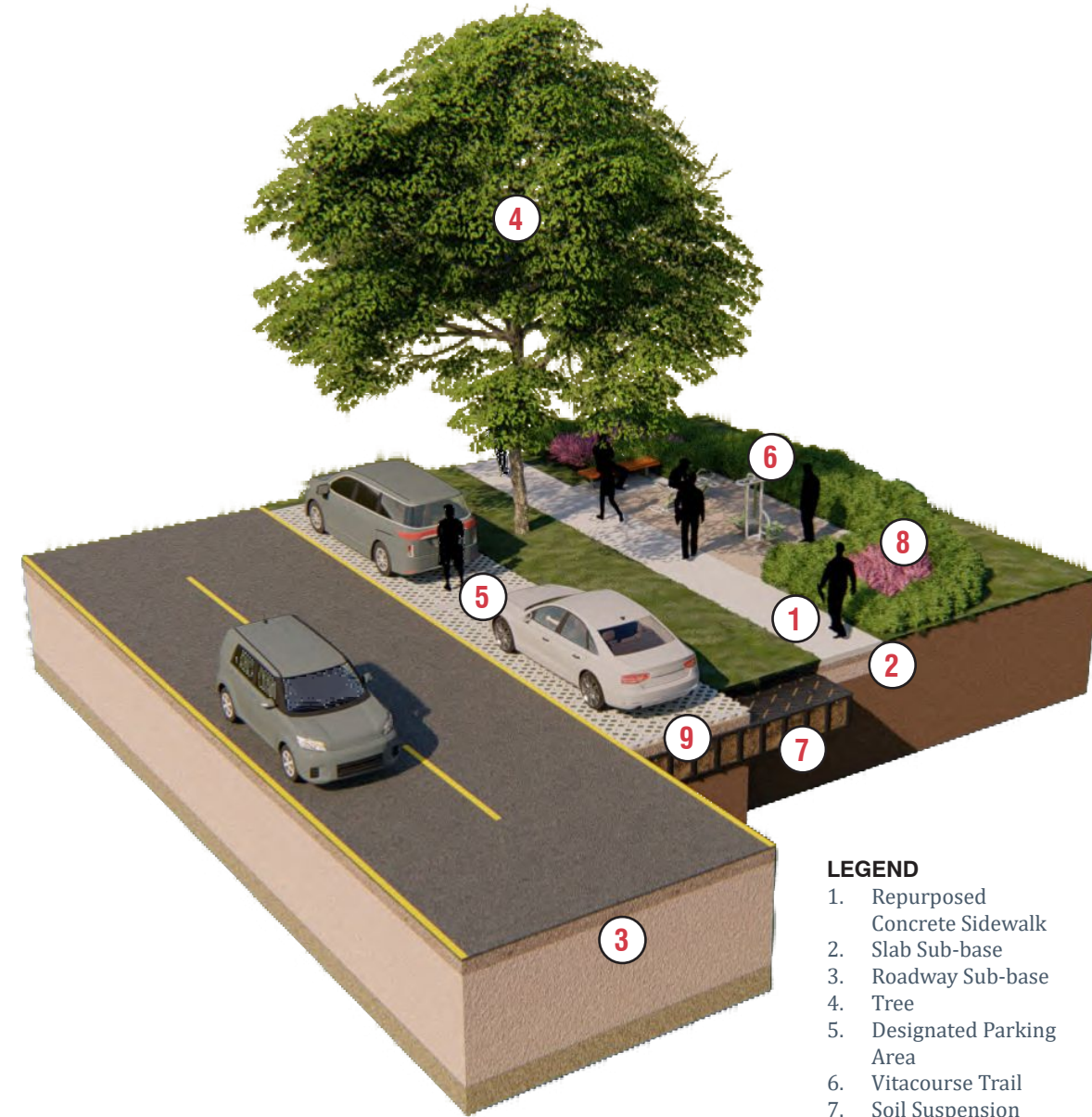
CONCEPTUAL PARKING LAYOUTS

PARK PARKING MASTER PLAN

OCTOBER 14, 2021

SUSTAINABLE DESIGN VIGNETTES

03MODULE



LEGEND

- | | |
|---|--------------------------------|
| 1. Repurposed Concrete Sidewalk | 8. Proposed Planting Buffer |
| 2. Slab Sub-base | 9. Paverlock Sand and Sub-base |
| 3. Roadway Sub-base | |
| 4. Tree | |
| 5. Designated Parking Area | |
| 6. Vitacourse Trail | |
| 7. Soil Suspension System w/ Amended Soil Mix | |

Parallel Parking | Paverlock w/ Silva Cell



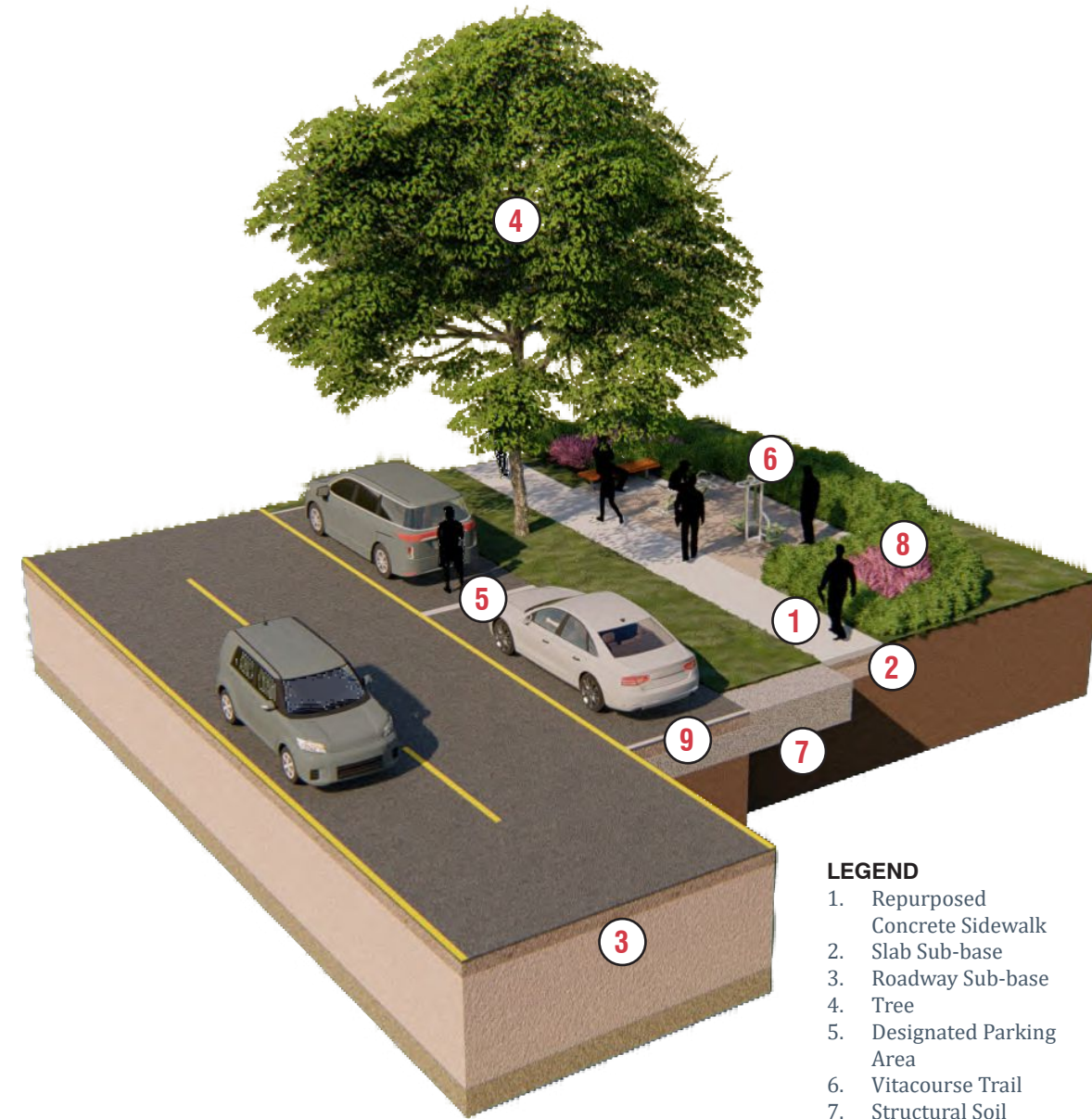
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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

PARK PARKING MASTER PLAN

OCTOBER 14, 2021



LEGEND

1. Repurposed Concrete Sidewalk
2. Slab Sub-base
3. Roadway Sub-base
4. Tree
5. Designated Parking Area
6. Vitacourse Trail
7. Structural Soil
8. Proposed Planting Buffer

9. Asphalt Sub-base

Parallel Parking | Asphalt w/ Structural Soils



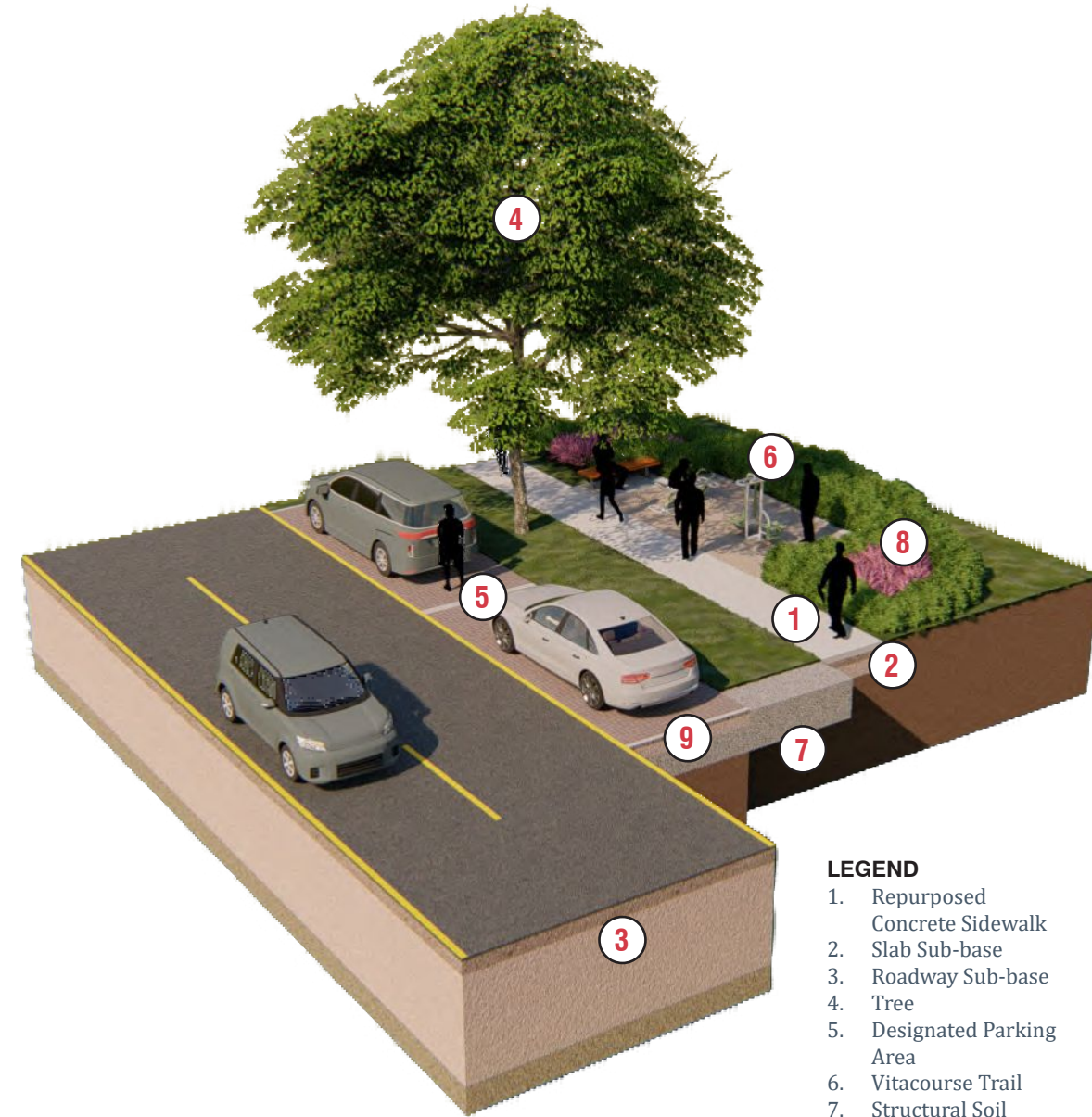
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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

PARK PARKING MASTER PLAN

OCTOBER 14, 2021



LEGEND

1. Repurposed Concrete Sidewalk
2. Slab Sub-base
3. Roadway Sub-base
4. Tree
5. Designated Parking Area
6. Vitacourse Trail
7. Structural Soil
8. Proposed Planting Buffer

9. Paver Sand and Sub-base

Parallel Parking | Pavers w/ Structural Soils



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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

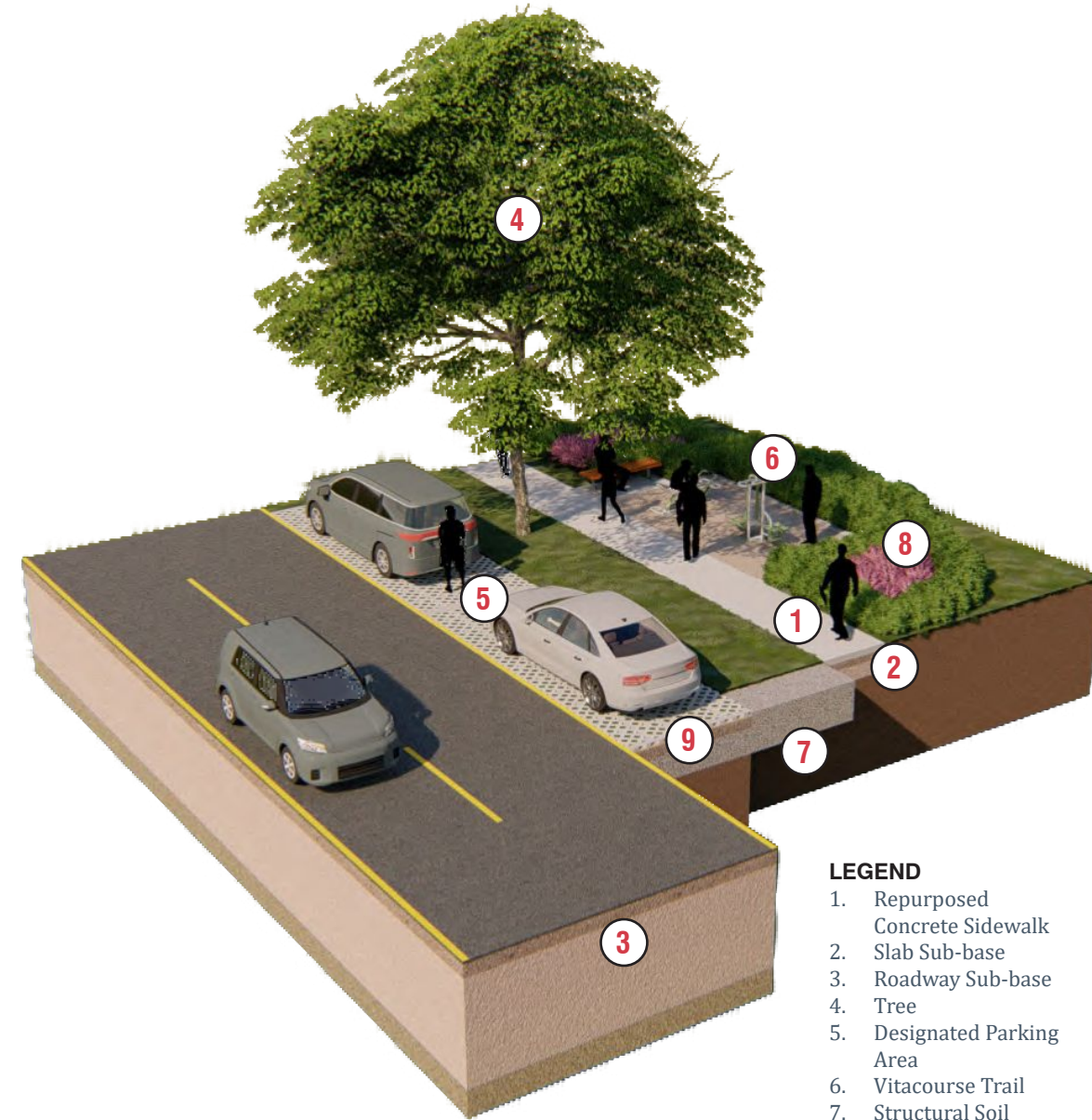
PARK PARKING MASTER PLAN

OCTOBER 14, 2021

SUSTAINABLE DESIGN VIGNETTES

03MODULE

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LEGEND

1. Repurposed Concrete Sidewalk
2. Slab Sub-base
3. Roadway Sub-base
4. Tree
5. Designated Parking Area
6. Vitacourse Trail
7. Structural Soil
8. Proposed Planting Buffer
9. Paverlock Sand and Sub-base

Parallel Parking | Paverlock w/ Structural Soils



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VILLAGE OF BISCAYNE PARK

CONCEPTUAL PARKING LAYOUTS

PARK PARKING MASTER PLAN

OCTOBER 14, 2021

SUSTAINABLE DESIGN VIGNETTES

03MODULE

Thank you

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